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ST. LOUIS, THURSDAY, JANUARY 10, 1884.

No. 2, Vol. XXXVII.

Sorgo Department.

COL. N. J. COLMAN, President: Yours Dec. 20th is received. It would give me great pleasure to attend the meeting he Mississippi Valley Cane Growers' Association this season, but my time is so occupied that it will be impossible. I have sent Prof. Wiley to attend the various conventions of sorghum cultivators and manufacturers of the country, and I have no doubt he will present himself to you, and I hope he will be able to afford you some information with regard to the subject which will occupy the attention of your association. Wishing you a successful meeting, and a prosperous season will say, because I believe it to be true, for 1884, I am very respectfully,

GEO. B. LORING, Com. Washington, Jan. 3nd, 1884.

One of the interesting addresses to be delivered at the forthcoming Annual Meeting of the Mississippi Valley Cane Growers' Convention, will be that of Wm. McMurtrie, E. M., P. H. P., of Champaign, III., who will address the meeting on "the Possibilities of Sugar Beet in American Industries," an interesting subject, though not on Sorghum.

think some of your folks may have supposed we had no cane here. But I am here, and we still have molasses. Northern sugar cane was a fair crop here, and I made? 100 college all for supposed with the sun until fermentation has set in and frost bitten cane may be benefitted by its use. Limed sirup is more

Sparta, Ills.

COL. COLMAN: The sorghum ague is shaking us a little in this locality. We (as your perhaps are aware) certainly have suitable soil, and our most enterwill recollect that old Father Hedges said "be very careful that you do not use that continued plowing and corn-raising is foreign to the adaptation of our soil, and that we must turn our attention to grass and improved stock, and now if we can adopt the sorgo interest am satisfied it and improve soots, and now it we can adopt the sorgo interest am satisfied it will add largely to our prosperity. We contemplate organizing a company to commence with as little capital at the start as will do the work successfully, as it will take time to interest and edu-

as it will take time to interest and edu-cate farmers in the enterprise. Is it not time the matter was understood, seed looked after, etc.? What will a small (or medium) outfit probably cost, and what make of ma-chinery gives most general satisfaction? All information or advice will be glad-by received. Yours truly, A. M. B. La Plata, Mo.

La Plata, Mo.

By all means come to the meeting of the Mississippi Valley Cane Growers' Association, 16th, 17th and 18th instant; there to meet, hear and talk with the leading spirits in the business. Your soil, country and men (good all round) are eminently adapted to the business and they can make more money per acre than with corn or wheat.

1 cord word per day 200 heated to the same temperature, and in each the same number of feet of p and remains in each until condens Heree it would be impossible for one give out 100 degrees of heat sooner til the other.

150 gallons. Deducting \$8.65 from fresh from the boiler by the manife while the steam is cooled down before each day's run each season.

We have heretofore advised those whose attention it was to attend the meeting of the Mississippi Valley Cane Growers' Association, to bring with them full samples of their sirup and sugarmade during the past year. As we said last week, quart samples of sirups in large wide-mouthed bottles, and sugar in nice sample boxes, are desirable. We expect to have a committee of capable gentlemen to arrange all samples for the meeting.

COL. COLMAN: I have now passed my 25th anniversary in the sorgo sirup business, and with it I have seen again and again the baneful effect of the use of lime in cane juice when the aim is to that one hundred gallons of sorgo sirup are injured in its use while one gallon is benefitted. In an article in your paper of date May 25th, 1882, I used the words "no amateur should everjuse lime, because in my experience twenty have failed in its use while one has succeeded," This I now repeat, because I believe it to be true. The expert may with safety use lime when he has the sulphur bath to undo what wrong the lime has done; but even in this case the greatest care is are injured in its use while one gallor even in this case the greatest care is needed else you have a "black strap" sirup instead of a fair transparent amber colored sirup. Lime always darkens sirup more or less and especially so when

ern sugar cane was a fair crop here, and I made 2,100 gallons, all for customers, which sold readily at 50 cents retail, and 40 cents by the barrel. Could have sold much more if we had it. There is enough of encouragement in the business to warrant one in saying we will plant more next season. Hope to be at the convention, and will if possible.

C. R. M.

Sparta, Ills.

ways of harvesting cane as there are growers. It is an expensive branch of the business and will stand much improvement. The question of stripped and unstripped cane for medium and large sized mills is generally decided in favor of unstripped. Experiments at Washington with unstripped cane have given three per cent more strup than from stripped, and sirup has been made from the leaves. Stripping costs from one and one-half to three dollars per acre. Cane with leaves on loads easier, rides without slipping, dumps better, men at mill prefer to handle it and it feeds better at the mill. Some claim the leaves fill in between the stalks as it passes through the mill giving a higher per cent of juice. and the Possibilities of Stagar Beet in American Industries." an interesting subject, though not on Sorghum.

— Oct. OLIAN: Yours, inviding me to the annual meeting of the Mississippi et al. (as the subject of the American Industries) and the good company you always have, it shall be pleased to be with you and the good company you always have, it shall be pleased to be with you and the good company you always have, it shall be pleased to be with you and the good company you always have, it shall be pleased to be with a new that the subject of the Youn Fan Centrifugals, Rone-Back Filters, Klins, and Defectation, "which, it notes, as well as the large. Hope you had a folly good time as finding body the scition of the heal instantly throws all green scent had been as the stage. Hope you had a folly good time as finding body the scition of the heal instantly throws all green scent the stalk as the passes through the stage of the young the scition of the scition of the heal instantly throws all green scent the stalk as the passes through the scition of the sci

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Since, then, the same volume of steam has traveled through the same number of feet of pipe exposed to liquid, at the of feet of pipe exposed to liquid, at the same temperature each must throw off the same amount of heat. Hence it follows that steam one foot from the manifold will be the same temperature of steam 10 feet from the entrance of the continuous coil The same will be true any distance you wish to go, so that by the same temperature of the time the steam is half way through to eit will be half way through the ordinary products of the primative kettle, and its cotemporary, the old and eac will be the same temperature. any disance you wish to go, so that by the time the steam is half way through one it will be half way through the other and each will be the same temperature. Now, Mr. Editor, I have had the floor

e gas 25x30=\$865 50 of clear money made in 30 days.

A factory equal in capacity to his aced an cot cost over\$500. Hence, the cost of fitting up can be cevered by the first dyear's run and have \$365 50 of money left. Having consulted with a number of small operators I have found no one whose expense exceeded nine cents per leg gallon. Some cut it down to less than six conts.

Does anything the farmer can engage in bring in so much clear gain? The only way I have ever known money to be lost in the business was where men tried to be large operators before they became successful small operators.

Harvesting Cane.

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Harvesting cane as there are growers. It is an expensive branch of the business was different ways of harvesting cane as there are growers. It is an expensive branch of the business and will stand much improvement. The question of stripped and unstripped cane for medium and succents. The question of stripped and unstripped cane for medium and continue to reiterate such a proposition represent such a proposition reiterate such a proposition represent such continuous, the chre with such crude apparatus; withols serious continuous, the other with such crude apparatus; which seriously is jurisufed to the oause. You are exception, but strengthens the Uniformity is impossible with such crude apparatus; which seriously is jurisufed to the oaution are such as mytery to me. Suppose we have to illustic continuous, the other with cut crude and well-known are represented to such a propose we have the first first the continuous coll are the continuous coll a see they are all about the same;" but the eyes and the educated taste of that experienced sampler, detected a decided difference. "But, my dear sir, you have

fashioned deep pan. There is no ex-cuse for the use of this primitive appara-Now, Mr. Editor, I have had the floor long enough and will yield it to those agents that have been preaching to us that muifolds evaporate more rapidly than the continuous coil. Give them all the rop, they want, so that they stick to the popits.

In the above I have been considering the double manifold as found in Mr. Field's pan. The same reasoning will be according to the popits.

are thousand dollar plant to manipulate sorghum molasses profitably; half as many cents will locate a good paying factory, and hundreds are making money and producing a first-class article, on one-fifth that amount—\$100.

There is another mortal sin practiced against sorghum; the use of bad cooperage. Many of our farmers will plant a small patch for home consumption; but little attention is paid to it, as it is but a side show in the great farm closes. the sorgnum in Jefferson Co., Ind., may not be this in the columns of the great exponent of the growing industry:

Owing to the past unfavorable season, the crop has been short, but a marked improvement in quality of product is noticeable; owing to the advantage of past experience, and more particularly the improvement in machinery used in manufacture. There is, approximately speaking, fifty small sorghum factories in Jefferson Co., all of which have done more or less work this season; a number of which have done a profitable business, producing a splendid quality of strup, and but little attention is paid to it, as it is but a side show in the great farm circus. If it grows, good; if not, small loss. When ripe, it is cut, and in idle time hauled to mill, and there awaits its turn, often three or four weeks, before crushing. If they happen to have an old barpast weeks are in a thome, with the sour dregs of last year's crop in the bottom, that which no amount of ordinary washing will eliminate, it is hurriedly rinsed, and into its foul depths goes that sirup; fit nectar for the gods! Or, what is worse, they go to town and purchase an old lard or vinegar barrel, because it is cheap, (?) and there are the production of the more of which have done approfitable business, producing a splendid quality of sirup, and the statement of the structure. had but a step-mother's care from its infancy, is ignominously consigned at its maturity. Scripture forbids us putting new wine in old bottles. It might have added: "Neither shalt thou put new sorghum in old barrels, lest it become corrupt, even unto fermentation, and the barrels break; and there shalt be weeping and gnashing of teeth, and the owner thereof shalt bow down his head in sorrow and lamentation, and shalt cry out with a loud voice: "Why did I cave the penny and lose the pound!"

cry out with a loud voice: "Why did I save the penny and lose the pound!"
But with all these little incourgruities, which dear-bought experience will in time eradicate, sorghum in Jefferson County is thriving apace, in fact, it's a promising child; and with mode rate nursing will soon be a man; a peer among its fellow farm products. We predict the time is short, when the black, bitter product, formerly miscalled sorghum, in Jefferson County, will be no that make by the Drummond Brox. Drums performed the control of the barrel of the semand came ready market at 10 cents by the barrel of the semand came ready market at 10 cents by the barrel of the semand came ready market at 10 cents by the barrel of the semand came ready market at 10 cents by the barrel of the semand came ready market at 10 cents by the barrel of the semand came ready market at 10 cents by the barrel of the semand came ready to see the barrel of the semand came ready to semand came ready to semand came ready the se

frozen. The more finely it is spread over the surface the better the effect. A bushel to a square rod has made a difference of nearly two quarts of grain or at the rate of ten bushels per acre. This makes the manure give about two bushels of grain for each two-horse load of manure. But this is not by far the only benefit from winter top-dressing. Under each particle of manure a clover seed will make vigorous growth and permanently enrich the soil. Only finely rotted manure will produce such results. If very coarse, the manure will fall in heaps and partially smother the wheat, especially if well covered with snow.

A farmer who has grown the Alsike clover the past season for the first time reports himself well pleased with it. Cattle and horses eat it more readily than Cattle and horses eat it more readily than red clover, both as grass and hay. It is destitute of the slightly bitter flavor that detracts from the value of fresh green clover. In an Alsike field cows will eat the new seeding instead of waiting until starved to it, after gnawing bare the old sod in fence corners. The crop of seed varies from five to as high as ten bushels per acre, but if the Alsike is left for seed its hay is much less valuable. Its superiority is manifest as compared with the chaff from red clover that has been threshed for seed. threshed for seed.

—A correspondent of the Mirror and Farmer says that crude petroleum is better than any other material for painting all kinds of farming implements. It can be applied with a common paint brush, and the implement can be used in a few minutes afterwards. Fence posts painted with it from the bottom up to several inches above ground will last twice as long as unpainted ones. Roofing shingles, by dipping the butts seven or eight inches before laying, will last much longer than without; or the roof can be painted after it is laid, which will double its endurance. A hen roost painted with it will never be troubled with hen lice, if the roosting poles are painted once a year. For cuts, bruises -A correspondent of the Mirror and painted once a year. For cuts, bruises or sprains on man or beast, there is nothing better. For rough board fences it is excellent, and it as good as linseed oil as a first coat on any building.

Large or Small Red Clover?

At a Farmers' Club recently, the fol-

At a rarmers Club recently, the fol-lowing discussion was reported: "Which is better to plant for general purposes, the large or small red clover?" Mr. McGregor remarked—Though his experience with the two is not extensive, he prefers the common red clover to the large or English. He thinks for hay o pasture or seed, the common is to b preferred. As a fertilizer he cannot sa preferred. As a fertilizer he cannot s that the large is any better. He h found a disadvantage in it, as it accum lates in bunches so thick that when d and wiry it is almost impossible to ge cutter to cut through it. When dry i wiry and tough to cut. He can see better results where it was turned un beside that of the common red. He fers the latter.

Heretofore much has been said with reference to the destructive instincts of the worthless cur more in reference to his night-prowling and sheep-destroying character than anything else. Some months ago he was found to have bitten a number of valuable beef animals in Kansas and to have made them as rabid as him-self, much to the destruction of life and property in Kansas. But now comes another report from that state, this time from Crawford county, to the effect that some two months ago a little dog owned by Joseph Beck, bit its owner and soon after disappeared. As nothing unusual seemed to be the matter with the dog nothing was thought about the matter until night before last, when a messenger came in and summoned Doctors Graves and Pritchard to Mr. Beck's residence. When the doctors reached there they found him in a strange condition. His eyes had a wild look in them and had be-come a dark greenish color. His pulse was 140. The doctors, suspecting what was the matter with him, brought a glass of water to the bed when he immediately went into the most horrible convulsions went into the most horrible convulsions, traying to scratch and bite every one that came near him. As soon as the first spell had passed away as he regained his right mind, he begged them to tie him so he could do none of them any harm. He was strongly bound, and all that could be done was done for him, but convulsion after convulsion followed in such rapid succession, that shortly after 12 rapid succession that shortly after 12 'clock last night he died.

The Mayor of Cherokee has issued a proclamation warning all persons that own dogs to muzzle them or keep them tied up, and to-day the city marshal, accompanied by an armed posse of men, is going through the city shooting every dog found running at large without a

When will people realize the risks they now run by keeping a worthless cur that is likely to become rabid at any time to treat their owners, wives or children to just such a dose. No doubt Crawford county will attend to the matter and "lock the door now the horse is stolen."

--Cotswold sheep, on their native downs, says the London Live Stock Journal, are a prolific, hardy and profitable stock. It records the birth of six lambs at various times to a ewe three years of age, and speaks of the fecundity of the ewes as rarely equaled, while the flocks thrive with the

—The wool trade continues very quiet, yet its tone is steady, and there is undoubtedly a good deal of interest in the present situation. Values do not advance, neither do they recede, and the low range of prices is the one drawback to the current business of the day. The approach of the new year, many think, will bring about a change of some kind, concerning the nature of which opinion is somewhat divided. There is nothing in what is going on just now to warrant any great indulgence in prophetic expression. Values do not adphetic expres

—Shepherds, in their daily practice, observe many interesting facts which, if published, would be of infinite benefit to thers in similar circumstances. We alothers in similar circumstances. We always utilize all the crumbs which fall from the lips of the experienced farmer; and, as one ounce of practice is worth a ton of theory, the columns of this department could be made much more practically valuable if our readers, who include the best flockmasters in the United States, would chronicle and report more of their experience. Let your light shine.

—Unless one wants to go into very fancy-priced stock, a sheep farm of moderate size can be stocked up with well-bred animals at a limited outlay. To the man beginning in the business the difference in cost between mean and good sheep should not be considered a bugbear in any sense. To start out with belf the number and have them good. nugbear in any sense. To start out with alf the number, and have them good, will be found to be decidedly the better solicy in the end. The buildings needed or the one class of sheep are no more xpensive than the other, while there is e in the amount of food and essential for the thrift of the re-ctive flocks. The whole matter is one he first cost, and this being the case, man of good business qualifications uld hesitate two minutes in deciding

Five good and comfortable quarters, proper and sufficient food, and the wind blows and the rain falls, in rest in peace, knowing that your il fence wet to the skin, and con-g a cold and losing in condition an you will be able to recover in ght. I know I should be unable a wink if, when the tempest wink if, when the tempest and the rain fell I knew that my animals were suffering from mency of the weather; and the can stand in apathy and allow ls to shift for themselves had t stock raising altogether, and a something more in accord with ms feelings—raising dogs for in-stance, to kill the flocks of those who do take care and pains to raise something

-I will say to M. D. S. that great care breeding stock, and the fault is just as great are stock, and the fault is just as great in selecting the females as males. Never breed any flock without making close discrimination in regard to the general make up of the female. Observe general make up of the remaile. Observe a good, plump form, straight back, well let down in the flank, and good strong brisket (I use these common terms so that all can understand my meaning), and be sure to have it connected with and be sure to have it connected with sufficient carcass, as small mothers are not calculated to nourish large lambs; it will be the exception rather than the rule, if they produce anything much larger than themselves. It is the utmost fallacy to suppose that procuring first-class stock from breeders will take all the responsibility off the purchaser. The battle is only half begun. Constant care coupled with intelligence in breeding and other general management is just as and other general management is just as necessary for the purchaser as for the breeder of the flock; and it is much better to try to follow out the idea of the breeder in endeavoring to make an advancement, in larger carcasses, better tains the best of testimonials from every quality of wool, longer staple, and in state and Territory. This company is the fact every desirable thing which goes to largest manufacturers of Iron Roofing and make up the sum total of a first-class

tion has been asked, what is pe in the values of Mering ong-wool mutton in the En-ts? Taking the mering mutton and glish mark ports as guiles, we judge that the differ-ence would amount to two to four cents per pound dressed weight. The English have quite a predilection for their native

-At Melbourne, Australia, in Sep-—At Meibourne, Austrana, in September, during a sale of stud Merinos, an intense excitement arose in the bidding for one fine ram, the contest resulting in its being run up to the astounding figure of \$15,750—at least such is the statement of an Australian paper. If this statement be true, this is the highest price on record for a flock breeder.

—Many people make the mistake of always going out of any particular kind of stock when it is low, whereas obser-vation has shown this to be a very foolish policy. Going out at such a time means sacrifice, and placing the seller at the mercy of the market. Instead of being the time to sell, it has more than once been demonstrated in the history of the stock business in this country that it is the time to buy. Sheep men stick a pin here, and think of what you are doing.

-The following recipe for the cure of foot-rot is found "floating:" Six table-spocnfuls of tallow, one teaspoonful red precipitate, one teaspoonful pulverized blue stone, four teaspoonfuls flour sul-plur, 3-4 inch cube of beeswax, suffi-cient sweet oil for thick paste. Melt tal-low and beeswax and work in other in-gredients as it cools, oil last. This was given by an old herder and I found it a sure cure in from one to two applica-tions in very bad cases. Use every other evening after cleansing the hoofs.

Shropshire Downs.

Combining as they do a heavy carcass of choice mutton with a fleece of good veight and that fine medium staple that never goes out of favor, the Shropshire Down sheep are rising in popularity with American breeders. They are vig-orous, hardy, and stand close herding in large flocks without loss of size or stam-ina; the ewes are careful mothers and good nurses, yielding plenty of milk; they are prolific, flocks trequently prothey are profine, nocks frequently producing 40 per cent. of twins; they are hearty feeders, and have unusually great powers of assimilation of food, therefore they attain great weights at an early age; yet they kill well, giving a large proportion of choice meat. The quality of their flesh is such that, if it could be generally introduced to our markets its renerally introduced to our markets, its use would quickly banish the prejudice to many Americans have against mutton.

Almost a century has passed since the clean. Amost a century has passed since the foundations of the Shropshire Down breed was laid by crossing the Cotswold and the Leicester on the original stock found on Morie Common, a tract of some 600,000 acres in England. The original sheep had horns, and brown or black faces. The horns they have lost, but the brown faces they have retained, and the legs are dark gray. In those parts of America where wool alone is the object for which the flock is kept, the Shrop-shires will be found profitable; where both wool and mutton flud ready market, it may be doubted if a better breed can be kept.

be kept.
Importations of Shropshires to America are increasing in volume and in frequency. There are in the vicinity of Chicago a number of flocks of much merit; and other flocks are scattered through the country from Canada to Texas. For the good of a land, which in the first seven months of last year paid more than \$40,000,000 to other countries for wool and woolen goods, it is to be hoped that every reasonable effort will be made to extend a know-ledge of the characteristics of this breed, and to impress its value upon the minds of our people.

Breeders of Shropshires in America

are thinking of taking measures for opening a register in which, under proper regulations as to proof of pure breeding, etc., Shropshires in America may be entered.—Practical Farmer.

Australia.

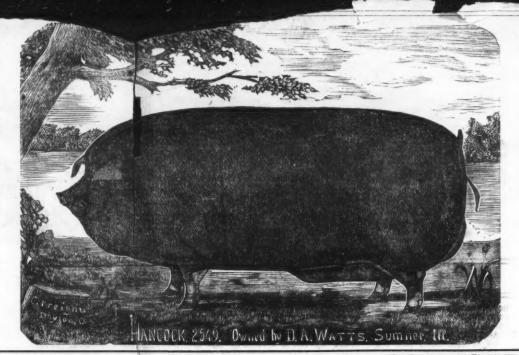
Mr. A. M. Garland, writing to the Chicago Tribune from Sidney, N. S. W., under date of October 2, conveys much interesting and valuable information in regard to the resources and products of this far away portion of the world, in regard to which we have less definite in-formation than of any other portion which has made the same advancement in civilization. The principal interests

of which he writes are wool, meat and wheat productions. He says:

Australian flocks number more than eighty millions. The men who have given it this development are pushing it with unabated zeal still further toward peace, knowing that your comfortable as you are re not standing in the lee wet to the skin, and conand losing in condition will be able to recover in know I should be unable of forcing prices toward the minimum of the when the tempest cost of production under the most tavorable conditions. True, comparatively little Australian wool gets into the markets of the United States—probably less than 4 per cent, of the total yield—but the presence of the other 96 per cent. in the markets of Europe will have an influence upon prices all over the world. The excellence of these wools is indisputable, and their sale in London and Antwerp calls together buyers from Holland, Belgium etc.—the very gradle of the woolen. able conditions. True, comparatively calls together buyers from Holland, Belgium, etc.—the very cradle of the woolen industry—for in the middle ages the weavers of Ghent and Bruges were the clothlers of Europe, and by settlements from these the woolen manufacture of England was established. As early as the tenth century the weavers of Flanders imported wool from foreign countries. That their wools are sought by manufacturers in these old weaving centres is esteemed no small compliment by Australian flock-owners. Enlargement of manufacturing must needs create enlargement of importations, and to this contingency are the hopeful eyes of the men of these colonies now looking forward, as they claim that no other country ward, as they claim that no other country can stand in their way when the charac-ter of wool and its productions in neces-sary quantities at minimum cost is taken into the account.

WELLS' MAY-APPLE (Liver) Pills.

We have just seen the new descriptive circular of the Porter Iron Roofing Co., of Cincinnati, Ohio. It is very handsome and confor circular.



Che Pig Pen.

Pig Pen Notes.

On this page we present a picture of Mr. D. A. Watts' Poland China boar, Hancock, showing, at least from that standpoint, the quality of his breeding stock. We are much pleased to be instock. We are much pleased to be informed by Mr. Watts that very many readers of the RURAL WORLD have purchased from him, and feel assured they got their money's worth. He sells such stock to-day as will bring him customers to-morrow, which is one of the secrets of his great success. crets of his great success.

-I cannot help but make a comment on the practice of allowing the swine to run in the barnyard; they are very llable to get hooked by the cattle or kicked by the colts; and then sleeping in the manure heap is unhealthy; it produces an unhealthy warmth while in such a nest and they are liable to get chilled in cold weather; and besides all this it is filthy; give hogs a chance and they will keep

—In speaking of the proper feed for young pigs, the Lancaster Farmer says: "In the artificial feeding of young pigs skim milk stands at the head of food, and when there is plenty of that there need be no serious uneasiness about results. Cooked meal may be advantage-ously added in small quantities to the milk—provided there is plenty of milk, as it is the milk that will furnish the albuminoids and mineral elements. In-deed, the proportion of say about one pound to a quart of milk is very desira-The health of the hogs in the West the

past year has been exceptionally good. The value of hogs and the closer study of his diseases in recent years have enabled farmers to protect themselves daily. I built a small silo 10x10x10 feet against the wholesale losses that were met with some eight and ten years ago—and it is gratifying to know too that despite the method of pushing hops in the solid pushing hop feeding them for market, by many west-ern feeders, that with watchfulness and care they can be kept reasonably free from sickness. The theory that the hog is naturally a dirty animal and that he will thrive as well in filth as cleanliness is incorrect, and this is beginning to be understood by all thinking breeders, and as a consequence the mortality among hogs in the West has been growamong hogs in the West has been growing less for some years. Mr. Curtis, a member of the Commission appointed by the President to investigate the diseases among swine, was in Washington last week and made his report to Commissioner Loring. In his investigation he visited all the great packing houses in Chicago and examined the condition of hogs on many farms in the West. He reported less disease among western hogs than he expected to find, and said he found everybody ready and willing to co-operate with him. So far as feeding is concerned, he is satisfied that it is conducted in a manner conducive to the conducted in a manner conducive to the health of the animals and says there is no foundation for the reports circulated no foundation for the reports circulated to the effect that hogs are fed on offal from slaughter houses and farms. He inspection of pork so that they as well as foreign markets may be protected against trichina and similar diseases. He suggested to Commissioner Loring that suggested to Commissioner Libring that we stern hogs might be improved by the infusion of new blood of a good quality as the close "in-and-in" breeding pursued for many years, especially in the case of Poland-China hogs, tended to increase the production of fat, and somewhat enervate the constitution of the analysis and their lives made miserable by Piles. This painful difficulty is often induced and always aggravated by Constipation. Kidney case of Poland-China hogs, tended to increase the production of fat, and somewhat enervate the constitution of the analysis and the influence of the condition of the bowels, and what enervate the constitution of the anwhat enervate the constitution of the animal. At no time has our hog interest been in so satisfactory condition as now, and with the growing knowledge of his hogship, western raisers will in the future, doubtless be able to keep their hogs freeer from disease.—Kansas City L. S. Record.

Pigs tor Fattening. The Swine Breeders' Manual, edited by The Swine Breeders' Manual, edited by Philip M. Springer, of Illinois, and published by the American Berkshire Association, has these sensible remarks on rearing pigs for fattening: "If it is our purpose in rearing pigs that they shall be fattened and sold on the market for pork, it is not necessary that the dam shall be a pure bred animal. Care in this regard is needed only in case of the sire. If he has come of a well-established pure bred family of good feeding animals, his progeny from well-formed and vigorous common or grade sows are usmals, his progeny from well-lotted vigorous common or grade sows are usually all that can be desired as rapid tenders. Such sows ually all that can be desired as rapid growers and good feeders. Such sows will generally prove quite as profitable for this purpose as the higher priced pure-bred animals. In fact, common sows are, with a good show of the deemed the better suited ing pigs to be fattened than pure-bred sows—first cost being of the question altogether. The believed to be more bardy, fro supposition that their digestive an organ are better developed.

visit a boy of four years came into the room, and his mother said, "My son, speak to the archbishop." He obeyed readily, and, nodding out his hand, said, "How do, Arch?" Your animals much suffering from nts, cuts and open sores, by using rt's Healing Powder.

HEARING RESTORED.

roved artificial ear drums. A great inon, by one who was deaf thirty years. organ are better developed.

Taking however, the average of mon sows throughout the coul

ompared with the average of pure-bred sows of our best approved strains, we are sure the latter are far superior in every desirable respect. Purity of breeding, judicious feeding, and a reasonable degree of protection from the severe colds of winter and the heats of summer, do not tend to impair constitutional views or restrictional views or treated tional vigor or render animals so treated any the less hardy. On the other hand we believe that the terrible neglect and exposure to which common hogs are so often subjected would eventually cause the extermination of the whole porcine tribe, or at least render it as worthless to mankind as the wild boar of the forest were these other agents not at work to counteract such a result. It is to the persistent efforts of intelligent breeders that we are indebted for the immense quantities of the choicest pork products ever before known in the markets of the world. From their well-kept herds are constantly being drawn the animals needed to repair, in common herds, the losses occasioned by neglect in manage-ment and carelessness in breeding.

Alfalfa as Hog Feed.

Alfalfa is, in my opinion, the best for-age plant in the world, producing more and better feed to the acre than any and better feed to the acre than any grass or clover I am acquainted with. It is a splendid success in Colorado, and will solve the problem of cheap pork here. I cut and hauled the green alfalfa to my hogs until October 16th, when I separated those I wished to fatten from the stock hogs, and commenced feeding with shorts and hay. I cut the dry alfalfa hay in half-inch lengths, and fill a harrel half tull of the cut hay, then put half and the cut hay, then put in about fifty pounds of shorts and fill full with water, stirring all well. I feed this to fattening hogs three times each day, giving them all they will eat at eleven. I never saw hogs fatten faster. To my stock hogs I feed nothing but dry alfalfa hay with water, three times daily. I built a small silo 10x10x10 feet falfa, putting it into the silo just as it came from the field.—H. Stratton, in Rural New Yorker.

"ROUGH ON TOOTHACHE," instant elief.

SUNDRIES.

Naomi, the daughter of Enoch, declared that she would not marry any one who was not"just perfect," and she did not get a husband until she was 580 years old

"And what is this animal called," asked the teacher of the class in natural history, as he pointed to a picture of a sloth. And the class all shouted at once, "A messenger ooy!"-New York Journal.

The Throat.-Brown's Bronchial Troches' ct directly on the organs of the voice. They have an extraordinary effect in all disc of the throat.

Col. Ingersoll pithily represe faith and the old when he says,—"I believe in the new firm of 'Health and Heresy,' rather than the old partnership of 'Disease and Divinity,' doing business at the old sign of the "Skull and Crossbones."

Chicago News: This is to be stereotype and held for daily use: "The beautifu Miss says he found the western people anxious of the adoption of an efficient system of No clew to her whereabouts can be obtained.

> soothes and heals the inflamed surfaces. It has cured hundreds of cases where all other remedies and applications have failed. Sold by all druggists.

An Alabama reporter thus describes a wed ding: "The bridal march was played by Will Corley on a harmonica. The groom was attired in a hickory stripe shirt and copperas colored pants, and on his arm was gently suspended his bride, like a clear rib side of bacon or a bushel of meal."

him to call on a lady. While making the visit a boy of four years came into the room, and his mother said, "My son, speak to the

roved artificial ear drums. A great in-on, by one who was deaf thirty years, are 5000 now in actual use. For circu-testimonials address JOHN GAR-th & Race Sts., Cincinnati, O.

DR. JOHN BULL'S

Smith's Tonic Syrup FOR THE CURE OF

FEVER and AGUE

Or CHILLS and FEVER,

AND ALL MALARIAL DISEASES.

AND ALL MALARIAL DISEASES.

The proprietor of this celebrated medicine justly claims for it a superiority over all remedies ever offered to the public for the SAFE, CERTAIN, SPEEDY and FERMANENT cure of Ague and Fover, or Chills and Fever, whether of short or long standing. He refers to the entire Western and Bouthern country to bear him testimony to the truth of the assertion that in no case whatever will it fail to cure if the directions are strictly followed and carried out. In a great many cases a single doze has been sufficient for a cure, and whole families have been cured by a single bottle, with a perfect restoration of the general health. It is, however, prudent, and in every case more certain to cure, if its use is continued in smaller doses for a week or two after the disease has been checked, more especially in difficult and long-standing cases. Usually this medicine will not require any aid to keep the bowels in good order. Should the patient, however, require a cathartic medicine, after having taken three or four doses of the Tonic, a single dose of BULL'S VREETABLE FAMILY PILLS will be sufficient.

BULL'S SABSAPARILLA is the old and

BULL'S SARSAPARILLA is the old and reliable remedy for impurities of the blood and Scrofulous affections—the King of

Blood Purifiers.
DR. JOHN BULL'S VEGETABLE WORM
DESTROYER is prepared in the form of
candy drops, attractive to the sight and
pleasant to the taste.

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BULL'S SARSAPARILLA. BULL'S WORM DESTROYER.

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Are your Kidneys disordered

r I had been given up by 13 best doctors : M. W. Deveraux, Mechanic, Ionia, Mic

Are your nerves weak? day Wort cured me from nervous weak fiter I was not expected to live."—Mrs. M. win, Ed. Christian Monitor. Cleveland, O. Have you Bright's Disease then like blood."
Frank Wilson, Peabody, Mas

Suffering from Diabetes? es almost successful reme es almost immediate reli Dr. Phillip C. Ballou, Mon

you Liver Complaint'
-Wort cured me of chronic Liver Disease "Kidney-Wort cured me of chronic Liver Disease ter I prayed to die."

Henry Ward, late Col. 69th Nat. Guard, N. 1

Is your Back lame and aching?

"Kidney-Wort, (1 bottle) cured me when I wasse lame I had to roll out of bed."

C. M. Talimage, Milwaukes, Wia Have you Kidney Disease?

"Kidney-Wort made me sound in liver and kidneys after years of unsuccessful dectoring. Its worth 180 a box."—Sam¹ Hodges, Williamstown, West Ya.

Are you Constipated?

Have you Malaria? have ever used in my practice."
Dr. R. K. Clark, South Hero, Vt

Are you Bilious?
Wort has done me more good than any
dy I have ever taken."
Mrs. J. T. Galloway, Elk Flat, Oregon Are you tormented with Piles?
"Kidney-Wort permanently cured me of bleeding
piles. Dr. W. C. Kline recommended it to me."
Goo. H. Horst, Cashier M. Bank, Myerstown, Pa.

Are you Rheumatism racked "Kidney-Wort cured me, after I was given up t die by physicians and I had suffered thirty years." Elbridge Malcolm, West Bath, Maine Ladies, are you suffering?

"Kidney-Wort cured me of peculiar troubles of everal years standing. Many friends use and praise hims. H. Lamoreaux, 1818 La Motte, Vi

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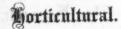
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Address the Peabody Medical Institute, or Dr. W. H. Parker, No. 4, Builinch St., Boston, Mass., who may be consulted on all diseases requiring skill and experience. Chronic land obstinate diseases that have baffled the skill of other physicians a spelialty. Such treated successfully without an instance of failure.





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[Judge Samus] Miller, Bluffton, Mo. will sessist in conducting the Horticultural Depart-ment in this journal. Any inquiries addressed to him will be promptly answered through the RURAL WORLD]

Horticultural Tricks.

Many varieties of fruits are put upon he market that do not deserve it; now and then a good thing is ruled out by misrepresentation. For instance, the Worden grape; when it was first introduced, the cry was by some who should have known better, or who had a motive in doing so, that it was only a Concord.

Many others, like myself, failed to get
the Worden, until recently, and now we
must wait a year or two to have it fruiting instead of naving a hundred vines in bearing. The same may be said of the Cynthiana grape. Around Hermann, Mo., only a few will admit that it is different from the Norton, and in some cases the Norton has been sold for Cynthiana, so that when the vines bore fruit it was no wonder that they saw no difference. The Concord also was sold at a high price with the name of Worden put to it when that variety was new yet. Hence the confusion as well as fraud.

S. MILLER.

Planting Fruit Trees.

It is an old saying that a woman was once asked when women got too old to marry. The reply was, that they must go to some one older than she, and her age was 80 years.

And so you might say about a regular fruit men if saked when too old to plant

fruit man, if asked when too old to plant trees. This has just been called to mind by hearing from an old veteran in York Co., Penn., with whom I have often broken bread, and with whom I have drank good wine, as well as enjoyed many fine fruits; also had the pleasure of his company at my old home in Calmdale, Penn. This old Jacob Cocklin, now in his 87th year, and whose hair is white as silver, intends planting 5 acres of Raspberry plants next spring. Think of that, some of you fellows in This has just been called to mind Think of that, some of you fellows in the prime of life (like myself, 63), and won't you feel ashamed to say, "I won't plant any more, as I don't expect to reap the fruit thereof.'

This Raspberry man has ten miles to haul to market, unless he makes wine of them.

S. MILLER.

Grafting the Grape.

EDITOR RURAL WORLD: We expect to do some grafting this winter or spring in order to change some varieties that we have growing, and have been looking up authority and experience as to the time to do the work. We have Bush & Son & Meissner's new catalogue of Son & Meissner's new catalogue of American grapes; they recommend winter grafting for all places south of St. Louis and all other localities before the sap circulates too freely; or wait till after the blossoming period, and then graft the new wood; whilst Mr. Reihl, in the last issue of the Rural World, fixes the time for successful grafting during the strongest flow of sap. So it appears that experience has led two practitioners in the art to different conclusions. Will in the art to different conclusions. Will thers give their experience in the art, and oblige D. F. EMERY. Carthage, Mo., Dec. 22, 1883. I have tried all the different times to

of friend Reihl's is as plain as I can make it, and is the best.

P.S. But you must have your graft in good condition, or no time will succeed.

Answers to Inquiries.

H. L., GLASGOW, Mo.—I do not think it advisable to mulch your old straw-berry beds heavily so as to destroy a strip between the rows; it might cause a sourness in the soil that would injure the remaining plants. Rather mulch lightly and in the spring cut off the plant a little below the surface of the ground, say eighteen inches broad between the and also across the strip of plants row six inches broad alternately. in the row six inches broad alternately. You will have as much and finer fruit than to leave all, with the advantages of

on this.

The best advice I can give you in regard to Norway Firs is to buy them say four to six inches and set them out in rows three feet apart, and one foot apart in the row for a few years, when they will be fit to set out in lawns or wherever word for windbreaks. If you will be fit to set out in fawns or wherever wanted for windbreaks. If you undertake to raise them for seed, and succeed, you will do what I failed to accomplish. One in my front yard about twenty-five feet high is a perfect beauty, planted twelve years ago. You have treated your little fellows right, but, I would have left getting then, out, until would have left getting them out until

I have seen excellent hedges of the Thave seen excellent neages of the Barberry in the east, but not out here, yet see no reason why they should not succeed here. Yes, I have bagged grapes, and with satisfactory results in every instance when done at the right time. And succeed here. Yes, I nave bags and with satisfactory results in every instance when done at the right time. And intend growing grapes now that would be abandoned entirely but for this bagging. With me the Concord has rotted worse than any other, and now I have but eight vines of it on my grounds. If you will have the patience, cut your Concord vines off at the ground. /Clean all the outside bark of the stump, burn leaf and branch, scatter the ashes. Then let but three canes come up, and either train them on trellise or let them run on the ground. I left on the ground, you will be sure of a crop of grapes free of rot the following year. Of the quite new varieties I have not had to fruit yet, so cannot tell how they will do here. Of apples, the Lawrer is a short-lived tree here. Tetofskee I have not on my grounds, Grimes Golden either. Fameuse is fine wherever I have seen! Mrs. Garfield is a splendid berry, Daniel Boone is now heeled in to be abandoned through it is well recombended North. Yours truly.

Daniel Boone is now heeled in to be abandoned entirely but for this bagging. With meter is a short-lived tree here. Tetofskee I have not on my grounds, Grimes Golden either. Fameuse is fine wherever I have seen! Mrs. Garfield is a splendid berry, Daniel Boone is now heeled in to be abandoned to fruit yet, so cannot tell how mended North. Yours truly.

Lowndes Co., Miss., Dec. 8, 1883.

If you will remove the ground from your young apple trees in the spring deep enough to get all the borer out, wrap well with stiff paper or a newspaper twice double, for three inches under ground to one foot above, draw in the earth, and the above, you are safe from the borer for one above, you are safe from the borer for one vear. Some say that they will sting hrough the paper and deposit their eggs, but I don't believe it; at least, not in one natance has it happened with mine. vear. The only trouble, people will not try it. But if they once lose 97 out of 100 trees. as I did, before I knew what an apple tree borer was, they will keep a lookout for them. Old as I am, would undertake to care for an orchard of one thousand apple trees, and not let one be killed by the borers. S. MILLER

N. H. Albaugh & Co's., Nurseries.

COL. N. J. COLMAN: Yours of the 25th December at hand. We have no 25th December at hand. We have no doubt your reply to your correspondent will be such as we would approve. While we know that budded apples cost more to grow than root grafts, and while we know that in New York nurseries, within the last few years, root grafting has almost entirely given way to bud-ding; and while we believe that budded apples are really more to be desired than root grafts; yet we do not, by any means, indorse any such idea as that they are borer proof. Neither that seedling peaches are more borer proof than budded peaches. We certainly do not authorize any such statements as indicated by you, and by enclosed blank certificate, you will see (on reverse side) that we caution our salesmen against all kinds of misrepresentations. We have (indirectly about 150 salesmen in the field, and it is very hard to account for all the "yarns they may tell, though in a general way we can control their statements. The craving desire among purchasers for something new and novel, or startling in horticulture, is no doubt a great tempta-tion to agents to invent "Sinbadian"

The advantages of budded over rootgrafted apples will doubtless be discussed at our next meeting of A. O. of Nursery-men &c., at Chicago. Yours sincerely, W. H. Albaugh & Son.

Remarks:-Last week we published a letter referring to statements made by the letter referring to statements made by the agents of the above firm. We addressed a letter to the firm and received the above letter in reply. To show the instructions given to agents we copy them. They are printed, and accompany every certificate of agency:

TO OUR SALESMEN. We wish it distinctly understood that

we do not approve of, nor countenance, in any way gross and fraudulent mis-representations made by salesmen for the purpose of obtaining purchasers for our goods.

Such statements as "Apples trees im-

Fine fruits have enough merits that can be truthfully told to induce purchasers to buy, without taxing credulity to believe incredible stories.

Our catalogues contain all the new and desirable things of value, in horticulture, and we desire our salesmen to confine themselves strictly thereto N. H. Albaugh & Co.

As stated last week, agents sometimes resort to misrepresentations to make sales, and the misfortune is, there are too many to be found who will not buy trees at all, unless wonderful big stories

Hart's Minnesota Seedling Strawberry.

ED. RURAL WORLD: This strawberry is entitled to more credit than is given it by most of the fruit growers. It was the best out of 35 varieties (including most of the new ones praised so much) fruited with me last season, gave us more large berries and more oursts than any other berries and more quarts than any other and sold for top prices; it is described by some as not very productive, "too soft," "will do for the amateur," etc., but my experience with it was most sat-isfactory. The following will speak for itself:

You will have as much than to leave all, with the advantages of convenient picking. Take good care of those seedling strawberry plants, there is still room for another.

J. D. H.—No, you cannot count with any certainty about persimmon seedlings bearing. I find that about one-half of them bear, and so far about one out of three that bear are worth keeping. With the sweet chestnut I have had no success. Once got 100 and they all froze the first winter, yet I have seen them grow, and know of one large tree near Hermann, which bears burs, but no chestnut in it. If you set out your seedlings next spring, they will most likely get strong enough to stand it after that. In taking them up don't cut the top root, and in planting, have good deep soil so that the roots can run down. Much of your success depends on this.

The best advice I can give you in remainder the seed of the seed them grow, and in the seed them grow, and the seed th time. We had less "soft" berries to throw away than of any other variety except Captain Jack, which was by far the firmest berry I had. I did not keep any record of the entire pickings, but know the one preceding the above-one was something over 30 quarts, all large berries averaging in size with Triumph of Cumberland, though of a deeper red and coulcil shape a very handsome and conical shape, a very handsome berry. After the 11th of course the pick-ings were smaller, but they held their

berry. After the 11th of course the pickings were smaller, but they held their size to the last.

This is what Hart's Minnesota Seedling strawberry did with me. If any one can give a better showing let us hear from them. I can not say what it will do another year, for last year was very unfavorable for strawberries, and it may have to "stand back" for some of the others which I hope to see in their perfection another year, which had a few extra fine berries, but mostly "but" tons" or imperfect fruit complained of so much last season, May report later on some others.

HENRY SCHNELL.

HOWARD CO., MO., Dec. 27th, 1883.

P. S.—The soil here is a deep rich sandy loam.

COL. COLMAN: The year 1883 has been a prosperous one for fruit and vegetable growers in this part of Southern Illinois. I wish I could tell the amount and value received at this (Cobden) sta-tion. Can say with certainty it was over \$200,000. We see prosperity on every hand, in the form of new buildings and improvements on almost every farm, and they are good substantial structures, thus showing that the times are prosperous.

B. F. B.

Cobden, Ills. The Mississippi Valley Horticultural Society-

-The fifth annual meeting of this Society will be held in Kansas City, Missouri, on Tuesday, Wednesday, Thurs-

ciety will be held in Kansas City, Anssouri, on Tuesday, Wednesday. Thursday and Friday, January 22d, 23d, 24th and 25th, 1884.

The prestige that the Mississippi Valley Horticultural Society has already gained, as the head of the system of Horticultural Organizations within the great and prosperous valley from which great and prosperous valley from which it takes its name; the very excellent program herewith presented, including, as it does, leading horticulturists and fruit growers from all parts of the country; the fact that this meeting is to be held in the most progressive and enterprising city in the West, and, that the Society country the strength of the society of the strength of the goes to Kansas City as the guest of the Missouri Valley Horticultural Society, are, of themselves, a sufficient guarantee that the meeting will be a grand one. This meeting is purposely fixed at a

time when tarmers and fruit growers are resting from the toils of the year, and when they can best spare a few days time in mutually improvign their minds. through such facilities as meetings of this kind only, can afford. It also comes after the close of all State and important Local Society meetings, thus bringing together its membership fresh from their respective schools of horticultura knowledge.

A VOLUNTARY EXHIBITION of fruits and other horticultural products will be made in connection with the meeting, and as this occurs in one of the best fruit regions of our country, we feel confident that this feature will prove of great interest to all who attend.

ENTERTAINMENT. The St. James Hotel will be headquar-ters, at two dollars per day. Other ho-tels at from one dollar to two dollars per

day. RAILROAD ARRANGEMENTS. The Missouri Pacific System of roads including the Wabash, and embracing about ten thousand miles of road, tending as far north and east as Chic Detroit and Toledo, and as far south and west as New Orleans, Galveston and El Paso, will return members in attendance, who have paid full fare over these lines, at one cent a mile, upon the certificate of the Secretary of the Society. The Chicago and Alton, Chicago, Burlington & Quincy, and Hannibal & St. Joe roads will return members on the same terms. The Ohio & Mississippi will sell tickets to St. Louis and return at one and one-third fare, to members indosed by the Secretary. The Louis-ville and Nashville will give reduced rates to members applying to its Gen. Passenger Agent, C. P. Atmore, of Lou-ieville Kr.

isville, Ky.

THE TRANSACTIONS, including the valuable papers promised in this program, together with a full synopsis of all discussions upon topics synopsis of an discussions upon topics presented during the meeting, will be published in a style corresponding with the first volume of proceedings issued during the last year; a volume which has called forth high encomiums from content hericultures and provide into eminent horticulturists and pomologists Members will be supplied by mail a copy without further cost. A limited number of new members can be supplied with copies of the past volume, for \$1.00, in addition to the membership fee. MEMBERSHIP.

The fee of membership is \$2.00 per nnum. This may be paid at the meeting, or remitted, in any safe manner, to either of the undersigned, prior to, or soon thereafter. Those unable to attend the meeting are requested to remit the fee of membership as above, and in due time they will be supplied with a copy of the transactions.

BUSINESS DIRECTORY.
In addition to the usual features of such volumes, the Transactions will contain a Business Directory for those entain a bosticultural pursuits, either as RUSINESS DIRECTORY.

J. C. EVANS, Treasurer, W. H. RAGAN, See'y, LaFayette, Indiana. PROGRAM OF THE MEETING.

The following papers will be presented to the Mississippi Valley Horticultural Society, at its fifth annual meeting in Kansas City, Missouri, January 22d, 23d, 24th and 25th, 1884, and in such succession as may be determined by the Committee on the Order of Business. Their presentation will be followed, in each case, by such discussion as may be suggested by the writers. These papers will be brief and practical, the object being to bring out the points of interest in the discussions that may follow.

1. Circulation of Sap-Prof. J. W. 1. Circulation of Sap—Frot. J. W. Robson, Cheever, Kan.
2. Trees Peculiar to Texas—T. V. Munson, Denison, Texas.
3. Some Experimental Work in Forest Tree Culture—Prof. W. R. Lazenby, Columbus, O.

4. Supplemental Report on Insects Affecting the Strawberry—Prof. S. A. Forbes, Normal, Ill.
5. Fruit Trees and Shrubs for the Northwest—Prof. J. L. Budd, Ames, Iowa.

6. Forests and Timber Interests of Puget Sound—Ex-Gov. Robt. W. Furnas, Brownsville, Nebraska. 7. Ornamental Trees and Shrubs of Alabama—Dr. Chas. Mohr, Mobile, Alabama

8. Recent Discoveries Concerning Grape Rot—Prof. Wm. Trelease, Madi-son, Wisconsin.

9. Horticulture in Ontario—D. W. Beadle, St. Catharines, Ontario.
10. The Educational Power of Hortiulture-Mrs. G. A. Tryon, Galesburg,

11. Strawberry Culture—J. H. Hale, South Glastonbury, Connecticut. 12. Berry Culture along the Atlantic Coast—J. T. Lovett, Little Silver, New

13. Our Future Wheat Supply—Chas. V. Garfield, Grand Rapids, Michigan. 14. Semi-Tropical Fruit Culture—E. M. Hudson, New Orleans, Louisiana. 15. Horticultural Exhibitions, How to

Conduct Them—Major Z. S. Ragan, Independence, Missouri.

16. The Peach Interests in the Central States-Pres. J. S. Beatty, Simp-

sonville, Ky.

17. Orcharding on the Plains—G. C.
Brackett, Lawrence, Kansas.

18. Horticultural Resources of the Mountain Region-D. S. Grimes, Denver. Col.

19. Ornamentation of Homes—E. Y. Teas, Dunreith, Indiana.
20. Small Fruits for the Family and how to have Them—Pres. Sylvester Johnson, Irvington, Indiana. Selection and Arrangement of Trees and Shrubs for a Country Place—Prof. W. J. Beal, Lansing, Michigan.

The following papers have been solicited, and are expected from the parties named, though not yet accepted. A second edition of this circular, to be hereafter printed, will give those only

who accept.—(SECY.)
How to Save the Apple Crop—E.
Moody, Lockport, New York.
Stone Fruit Cultivation in California
—Prof. Geo. Husmann, California.

The New Grapes—Geo. W. Campbell, Delaware, Ohio. Cultivation and Marketing Raspber-ries—Pres. N. Ohmer, Dayton, Ohio. Apples that Succeed in Missouri and Kansas—Samuel Miller, Bluffton, Mis-

Horticultural Progress in the South— Dr. Samuel Hape, Atlanta, Georgia. Conditions of Profitable Fruit Culture n Minnesota-Oliver Gibbs, Jr., Lake

City, Minnesota. Bicsson Blight in the Apple—Geo. P. Peffer, Pewaukee, Wisconsin.
Pear Culture in the Southwest—Maj. S. H. Nowlin, Little Rock, Arkansas.

Experiments at Agricultural Colleges— Prof. J. J. Colmant, Agricultural College Mississippi.

Market Fruits of Kansas City—L. A.

Goolman, Westport, Missouri. Gardening for Distant Markets—J. E. Porter, Humboldt. Tennessee. The Best Methods of Fruit Transporta-

tion—F. A. Thomas, Chicago, Illinois.
Grapes and their Culture—Col. Bennett H. Young, Louisville, Kentucky.
The Best Fruit Packages—E. T. Hollister, St. Louis, Missouri.

'the Value of Careful Packing and Handling—E. H. Williams, Indianapolis,

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treatment of their malady is postponed, the more difficult of cure it becomes.

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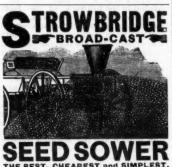
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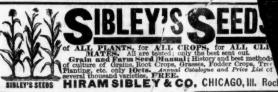
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BY NORMAN J. COLMAN

PUBLISHED WEEKLY AT

ONE DOLLAR PER YEAR.

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Address NORMAN J. COLMAN, Publisher. 60 0 Olive Street, St. Louis, Mo. (Advertisers will find the RURAL WORLD one of the best advertising mediums of its class in the country. This is the uniform testimony of all who have given it a trial. Many of our largest advertising patrons have used it for more than a quarter of a century, which is the highest possible recommendation of its value an advertising medium.

W. W. ADAMS of Lexington, Kentucky, w. W. ADAMS of Lexington, Actituday,
makes an important announcement in
this week's issue, and our horse men can
afford to look to it. The horse men of
Missouri can afford to look after the
stock to be sold there and to be in atten-

HON. SETH H. KENNEY'S advertisement for a week or two past, in offering sorgo cane seed for sale, has been made by the printer to read Wisconsin, whereas everybody knows that he lives in Minnesota. Those then wanting seed will write Hon. Seth H. Kenney, Morris-

DR. LOUIS BAUER. Dean of the College of Physicians and Surgeons of St. Louis, will meet the creamery and dairy men at their convention in the city, and dalk to them "of milk as an article of diet for the human family." His address will we are sure afford many food for thought, hence we are very pleased to announce him.

J. B. Brown of New York, an authority on the ensilage business in this coun-try and one of the best posted men we have, will be at the Dairy and Creamery men's meeting and tell those present what he knows on the question of saving lodder in summer so as to feed it to milch stock all through the winter. The address will be of great interest to all dai-

THE weather, for days past, has been

APPLICATION has been made to all of e railroads centering in St. Louis, for the usual reduction in rates to the members attending the coming Cane Growers'
Meeting, that is generally made to members attending similar meetings. We hoped to be able to announce that this reduction had been made, but the answers from all the lines have not yet been received. We have good reason to be-lieve, however, that members will be re-turned at reduced fare.

MR. ELI HASLER, of St. James, Mo. called at our office this week and renewed his subscription. He has taken the Rural World for thirty-two years, took it, indeed, when it was known as the Valley Farmer, and had many reminiscences to relate of the things that had transpired during that long period of time. He not only called to pay his own subscription, but like a good farmer brought along another and fellow farmer to make a beginning and to follow in his

SUBSCRIBERS will please bear in mind that the rule of this office is to drop all names from the mail list as soon as the term paid for expires. We keep no accounts for subscriptions. We know the RURAL WORLD is richly worth a dollar year to any farmer, ents it he will send

> ence at Strawberry Point, ton County. This place ortheast, and will accomen from Minnesota, Wis-and Iowa, while the peoand northern Missouri are All are cordially inend this meeting. Hotels eral rates and railroads will

S. A. KNAPP, of the Iows college, favors our readers ceresting article on the feeding With the excellent care given g stock, his system is all right of colts. his young stock, his system is all right— but as a rule, a little larger supply of oats is to be recommended. But few farmers are as particular in cutting hay at just the right time, and curing as carefully as President Knapp. Such hay as he has would keep colts in pretty fair condition, while hay as frequently saved, would make skeletons of colts before Spring

WE thought the year 1883 opened with terrible disaster, accompanied with fearful loss of life of a very exceptional with character, but the year 1884 does as bad. Two fearful fires occurred in St. Louis since we last went to press, destroy-ing two of the best blocks of stores on Fourth street, and property worth half a million of dollars. On Saturday night last, to add to the horrors of fire, twenty-seven persons, four women and twenty-three children were either burned to death or killed by throwing themselves from the windows of the Convent of the Immaculate Conception at Belleville, Il-linois, only fourteen miles from St. Louis. Such was the severity of the weather at Such was the severity of the weather at the fires of this city and such the mag-nitude of those fires that the maority of the firemen were badly frost-bitten and will carry remembrances and marks thereof for the remainder of their

Our readers cannot be too careful of neir homes, and of those they love more han life, by watching closely the fires in leir stoves and grates ere they retire to

THE cattle business is shorn of many THE cartie business is shorn of many of the hardships formerly associated with the business. The long and tedious drives inseparable from the marketing of cattle years ago have been materially reduced. The first to recognize the gowing importance of the cattle trade were the railroad companies. For several years the efforts of railroad magnates to approach the cattle ranges have heen apparent. Branches of roads' have been apparent. Branches of roads' have been run out in every direction. Yards, water tanks, side tracks etc., have been built to accommodate shippers and create a shipping point. Instead of the cattle men seeking the railroads, the railroads Address NORMAN J. COLMAN, Publishers to Olive Street, St. Louis, Mo.

(Advantisers will find the RURAL WORLD one characters will find the RURAL WORLD one the clear departises and profits.

NO PEACHES AGAIN.

Those engaged in peach culture in this section got a black eye by the late freezing weather. There will be no peaches in Missouri or Illinois in 1884. Whenever the thermometer indicates twelve or fourteen degrees below zero, the peach buds in that locality have been destroyed. And the thermometer at St. Louis has indicated more than twenty degrees below zero, and we think the statement of Microwick Conference on the control of t twenty degrees below zero, and we think even in the southern parts of Missouri and Illinois it has shown as low as 12 degrees below. The new wood of the peach is surely badly injured, and some orchards will be killed outright or nearly so. It is the coldest weather we have had for a score of years.

Strawberries and wheat have been protected by a covering of snow, and are uninjured, but many of the grapes and raspberries have been badly hurt.

and raspberries have been badly Apricots and nectarines have been much injured, and the fruit destroyed for the present year.

CREAMERY SUPPLIES.

Some months since, the RURAL WORLD Some months since, the RURAL WORLD presented to the manufacturers of dairy and creamery machinery and general supplies good and sufficient reasons why they, should regard the State of Missouri good territory for working. We did so knowing full well that the State was ready for the business, and that those who occupied the ground first would do the most and the best. At that time we the most and the best. At that time we stated that there was no house in town from which general supplies could be had, nor as a rule any one particular ar-ticle; and that there was room for some enterprising firm to occupy the field and take the business. Now we are to have a dairy and creamery men's convention at which such implements can be ex-hibited in the full view of the leading THE weather, for days past, has been too cold for anything, the thermometer ranging on Saturday and Sunday from 20 to 25 degrees below zero, killing, we fear, all the fruit buds of peaches, apriancets, nectarines, greatly injuring grape vines and raspberries, in the entire of Northern Missouri and Illinois, if not for many miles south of St. Louis. For twenty years we have not known so low a temperature. in the way of perfecting machinery for the dairy business, and we shall expect to see them here in tull force. There need be no mincing matters in this re-spect, for the territory is new and the people anxious to embark in it comparatively ignorant of what is to be done, how to do it and the material requisite. The manufacturers are therefore called upon to make the fullest and the best exhibit they possibly can and to have their men here to so explain everything as that all may be fully convinced of their adaptation to the necessities of the

If this is done we have no reason to doubt the success of such enterprise as the manufacturers put into the occasion, or of our own people becoming so thor-oughly imbued with the correctness of the statements made in these columns as to the desirability of central butter and cheese factories and the profitableness thereof, as to induce them to fall into

line and run their farms much more to grass and milch stock than ever before. We may add that the room for exhibition adjoining the hall is not large and that heavy machinery cannot be exhibit-

becoming a spring for the old state of the coming spring for the spring that will be sent of the coming spring for the old one of the coming spring for the coming spring for the old one of the com prices the coming spring for the old crop. The demand does not, and will not equal the supply. The crop has been universal, being especially large and excellent in quality in Iowa and Minnesota. Those States flooded the St. Louis market a few months ago with choice Rose, Peerless, Flukes, Burbanks, etc. The prices prevailing were exceediberal rates and railroads will ingly low—30 to 40 cents per bushel—netting as formerly, extend favors attendance. Let 1884 be first nee of all these meetings.

T. S. A. KNAPP, of the Iowa least part of their surplus, but they re-tained more than sufficient to supply all

do not think the late cold snap will effect the market or reduce the supply by any injury inflicted; at least no damage is reported here. To-day a car load of choice stock can be purchased at five cents bushel advance or last fall prices. To our southern friends and readers, many of whom invest a good deal every year in raising an early crop of Irish potatoes for northern markets, we would suggest for reflection the foregoing. The early receipts of the new crop from the South will not in consequence find as inviting a field as they have the past three years in St. Louis or elsewhere. They must be prepared to accept much lower figures, for the condition of the market now insures low prices then. The southern producers may find it profitable to invest more in other early crops the com-ing spring. It is not too early to offer this timely warning to our many south-

MISS. VALLEY HORT. SOCIETY.

LAFAYETTE, IND., Jan. 7, 1884. ED. RURAL WORLD:—I am just in-formed by the I & St. L. R. R. that they will sell round trip tickets from Indianapolis and intermediate points to St. Louis at one and one-third fare. As this is the only line offering us rates from Central Indiana, I would be glad if you could briefly direct the attention of your readers to the arrangement. Pros-

pect for a good meeting at K. C.
Yours Respectfully,
W. H. RAGAN, Sec'y. P. S.-Several of my correspondents

—A SNOW-WHITE deer was shot re-cently, near Sandusky, Illinois, by Henry Dunning. It attracted great sitention and visiors from all over the city came to see the curiosity, which is the rarest thing in the animal kingdom. It was seen at various times in the vicinity of Sandusky, and several expert hunting parties were organized with a view to its capture. So noted had the animal become that a gentleman from St. Louis offered 8400 for its capture alive, and many traps and nets were time and again laid for him, but in vain. He was sold at anotion 830 hours the water first the state of the sta at auction, \$30 being the price finally obtained. It was a buck, about 5" years old. Another and younger one is known to be in the same neighborhood.

Che Cattle Bard.

The RURAL WORLD is a farmer's paper as ell as a breeders' paper. It has thousands of farmers as readers who are interested in Barbara, in the center of a plateau, elevated the improvement of live stock. Many of 2,050 feet above the sea. Its greatest length these perhaps have not yet bought any of the improved breeds, but are watching their improved breeds, but are watching their opportunity to do so. They are learning weekly of the superiority of the improved breeds, and are anxious to become purchasers. And it is in this respect that the RURAL WORLD has decided advantages over a strictly breeders' journal. It cliculates among ordinary farmers that the biseders' among ordinary farmers that the biseders' journals do not reach. It meets a want that the breeders of fine horses, cattle, sheep and swine cannot be supplied with in a strictly breeders' journal. Such a journal circulates mainly among breeders, those who have stock to sell. We put the RUBAL down to one dollar a year, so that every farmer can afford to subscribe and he is not a reader of the RUBAL long before he sees the necessity of improving his live stock, and he bigins to the Rural long before he sees the necessity of improving his live stock, and he begins to work up, and in time may become a breeder of as fine stock as any one. We really think the RURAL WORLD offers inducements to live stock breeders as an advertising medium possessed by few agricultural papers. All we ask is a fair trial.

COL.COLMAN: A goodly number of the mem bers of the Saline County Shorthorn Breeders' Association responded to the call of the names were enrolled and much business was transacted. A combination sale was agreed upon to take place at Marshall, April 24th the Middle States of our Union in the me were pledged. thirty will be sold. In response to a call by the President, some

shares of stock in the American Shorthorn Breeders' Association were subscribed for. Breeders' Association were successful aline County breeders own nine shares. The next meeting will be the Tuesday, Feb. 5th.

Holsteins for St. Louis County.

Mr. T. C. Campbell, of Manchester, St. Louis county, Mo., about eighteen miles west eastern terminus of this line is Puerto Corofthe city, made a call on Joseph E. Miler, of Belleville, Ills., last week, and bought from coast, south of New Orleans, from which it is him of his latest importation eleven head of distant 900 miles, and with which it is conthe best Holstein cattle he had. In the lot is one bull, the choice of the herd, one year old, and will show with pretty much any animal of his age and breed. Eight of them are helfers, coming two years old, and in calf to the Prince of Twisk, the other two being helfer calves. At the head of this herd he the prince of the part of the prince of the part of will have Vandal 360, heretofore reported, making in all a herd of twelve Holsteins now on his farm. A good point to be made in connection with this purchase and addition to the valuable stock of the county is the fact that the dams of the heifers thus purchased have a record of 25 and 26 quarts the fact that the dams of the heliefs thus most importance to the blateau of hondu-purchased have a record of 25 and 26 quarts ras, apart from its fertility and its tempera-of milk per day as two-year-olds, and of 34 ture of perpetual spring, is the salubrity of quarts as three-year-olds. The Prince of Twisk to which they have been bred is out of the Pride of Twisk, the cow that took the pursue their avocations without danger to first premium at the last St. Louis Fair, as the pest Holstein cow on the grounds, and cer- of North America, from Canada and Lake Su tainly one of the best cows in this country. His entire selection has been made in pertainly one of the best cows in this country. perior to Louisiana and the Guin of Mexico, this entire selection has been made in per-but have nowhere found a territory which offson, and with the greatest care, from a herd that has been both bred and selected with equal care, for Joseph E. Miller is one of the most careful men in the business, and one of the soundest and best judges of cattle.

The plateaus of Central America. Commencing at an elevation of 3,000 feet above the sea through the careful manner of the soundest and best judges of cattle. Four of the eleven are imported animals. We esteem this a very valuable addition to made in different parts of the country, exthe milk stock of the State, and shall watc the development of the herd with great in- I propose very soon to publish, show that at

Young Men's Dollars.

Some one has advocated the idea of taking care of the pennies and letting the pounds care for themselves. We are disposed to bring the adage down to our own time and country nmend young men to care for the dollars. What young man on the farm can read the following from the pen of our good friend L. S. Coffin, in the Iowa Homestead, with out resolutely determining to go and do like-wise? There is a wonderful power and force in the argument, and if possible, much more n the array of facts and figures presented :

There is no way by which the average man can gain an independence so soon as by can gain an independence so soon as by farming. Of course I am speaking of proper and honorable ways. And, again, there is no vay under the sun that is so sure. Suppose a young man at 30 years of age has be dustrious and saving enough to be able to ret him a place for a home and ten good grade heifers that are worth fifty doller each, and a bull worth \$100. Now, canno any fair average man so work and manag as to keep these ten cows, and keep then well? If so, what would be the value of the increase of these ten heifers for the next to years? Allowing that one-half the increas shall be females, and allowing also, twenty per cent for loss and barrenness, the heife calves and their increase, together with th old stock, in ten years would make the man worth, at the very least, calculating the value of the increase to be kept up to that of the first stock—which can be safely depended upon-worth, I say, at least ten thousan ars. We have left out entirely the value of the steers which would be worth fully as much as the heifers, but we let them go into the cost of keeping the cows, family expense and improvement on the farm. Besides all this, if the man had wisely chosen his loca-tion and farm, the increase in value of this would be nearly, if not quite, equal to the in-crease of his stock. Here, then, would be a gain in wealth of about \$20,000 in tel, year's time and what is better than all, an independence and pleasure of life as far above the

-as peace above war.

have lately referred to your favorable The Republic of Honduras as a Cattle-Preducing Country.

The numerous valuable franchises grante within the past few years, by the Govern-ment of Honduras, to citizens of the United States, has had the effect of attracting the attention of many of our people to the various resources of that country; and considers ble numbers have already ferent enterprises, mainly agricultural and mining. An American gentleman, Col. G. W. Shears, has entered into a contract with the Honduranean Government to improve the river Una, and open it up to navigation. Already he has one steamer on the river run ning a considerable distance into the interior, from the Caribbean sea. Eventually it is his purpose to transport the products of the country, as far inland as the lake of Yojoa. situated almost in the center of the republic the streams connecting the lake with the sea being skirted the entire distance with fertile valleys producing tropical vegetation and higher plateaus yielding the fruits, vege tables and cereals of the temperate latitudes as well as abundant pastures. The agricultural interests of this vicinity are being greatly stimulated by Col. Shears' enterprise. The lake of Yojoa is a large and beautiful body of water, located in the department of Santa abounding in fish. Between this lake and the great plain of Comayagua, lies a high plateau called Segnatepeque, 3.600 feet above the sea, and thirty miles in length by two to five in breadth. This entire vicinity enjoys a delightful climate, with fertile soil, vielding all the products of the temperate latitudes. The great plain of Comayagua embraced in

These dimensions do not include the dependent valleys of the streams which concentrate in this basin and form the Humuya river, which empties into the Ulna, and through it reaches the Caribbean sea. In the same plain, and interlocking with these smaller streams, are to be found the affluents of the Goascoran river, which flows into the bay of Fonseca on the Pacific coast. The plains of Comayagua and Espino seem to have forced their way through the Cordilleras range in President, Will R. King, and on the 28th inst. order to form an easy line of communication quite an interesting meeting was neld in the county court room of our commodions and well-arranged new Court-house. Many new and six thousand feet high, thus ensuring ern borders are skirted with mountains five and six thousand feet high, thus ensuring them a climate equable, cool and salubrious, comparing with respect of temperature with and 25th. Ninety-eight head of Shorthorns of June. The greatest elevation on the en-About one hundred and tire route from sea to sea by the way of these plains is found on the rancho Chiquito, and is 2,850 feet above the sea, being a beautiful valley, or meadow, bounded on one side by high mountains and on the other by a range of hills. In this meadow, on which large nerds of cattle are found grazing, the trav eller finds two bright streams, scarcely a hundred yards apart, flowing in opposite di rections, one being the source of the Humuya, flowing into the Atlantic, the other of the Goascoran, falling into the Pacific. The tez, considered the best port on the Atlantic coast, south of New Orleans, from which it is nected by three lines of steamers making regular trips, touching at the intermediate ports of Belize in British Houduras, and Port Livingston in Guatamala. The schedule

the Imperial Academy of Sciences of Vienna, who spent some years in Honduras, making perior to Louisiana and the Gulf of Mexico

The meteorological observations which I the elevation of 3,000 feet the thermometer very rarely falls below 60 deg., and seldom rises above 82 deg. of Fahr. The mean tem-perature of the summer, or hot season, is from 69 to 75 deg. Fahr. The soil of Hondu ras, with few exceptions, is of such fertility as to require no manuring in order to yield two or three crops a year. The products of the torrid zone, sugar cane, coffee, cocoa, cotton, rice, tobacco, maize, bananas, yams, yucas, potatoes, etc., may be cultivated side by side with the wheat, barley, oats, rye, and the other cereal grains and useful plants of Europe. A delicious climate permits the emigrant to labor and follow his avocations for the entire year. With less effort he obtains ten times the products which he could secure in Europe. In many parts of the State are found mines of silver, gold, lead, copper and iron, yet undeveloped, and only awaiting the introduction of capital and of intelligent workmen." ras, with few exceptions, is of such fertility

-The open winter, plentiful supply of goo ribs of the stock cattle, have made the own ers of such happy. Assured of only slight, if any losses, with the prospect of a large calf crop, they feel justified in expecting increased prosperity in a business that has always been a paying one for the man who has

-Capt. W. C. Powell informs us that he has ost three head of fine cattle which he re ceived from Virginia. Upon making ex-amination it was found that the bladder was entirely filled with blood, no urine having passed since their sickness. Who can tell us what the trouble is and what the remedy? -Callahan, Texas, Clarendon.

INCREASE OF FARMS .- According to the census bulletin, the number of farms in the United States was 2,660,000 in 1870, and 4,000,000 in 1880. Much of this increase is in the new territories, some of which were sparsely settled ten years ago, but the fact that Alabama, Florida and Texas have more than doubled the number of theirffarms in the time while Georgia, Arkansas, South Carolina and North Carolina have nearly doubled, and Mississippi, Virginia and Louisiana have increased from 50 to 60 common fret and worry of either a profession per cent. showing that there has been a or merchantile life as light is above darkness, cuting up of large plantations into smaller ones

Aotes-Correspondence.

Coming Meetings. January 15th to 18th, Iowa State Horticultural

Society, Des Moines. nuary 16th, 17th and 18th, Wisconsin Dairy-

men's Association, Lake Mills. nuary 16th, 17th and 18th, Mississippi Valley Cane Growers' Association, St. Louls,

ssissippi Valley Dairy and Creamery Association, St. Louis, Mo., Jan. 30th and 31st.

1884. ebruary 13, Kansas State Cane Growers' Association, Topeka. February 6th and 7th, New York Cane

nuary 14th, Indiana Poultry Breeders, Inanuary 15th and 16th, Indiana Bee Keepers,

Growers' Association, Geneva, N. Y.

Indianapolis.

nuary 29th, Indiana Jersey Cattle Breeders, Indianapolis. January 30th, Indiana Swine Breeders, Indianapolis

nuary 31st, Indiana Wool Growers, In--The Smith's portable creamer, as adver-

tised in the dairy department, ought to attract the attention of all wishing dairy ap--Please inform me through your paper where Evergreen Millet or Johnson grass

seed can be had .- J. B. C., Clinton, Mo. Address Charles E. Prunty, seedsman, St. -We have had a very pleasant winter, so far, wheat looks well, corn about all housed,

and a good yield. First snow on 31st Dec., about four inches. The thermometer has ranged in the neighborhood of zero the past three days.—J. A. W., Oronogo, Mo., Jan. 3. -J. A. Wilson, of Jasper county, Mo., advertises a stock farm for sale in this issue

which will be found worthy of the attention of a great many farmers in the North and West. It will be found a very attractive farm with all necessary outbuildings, etc., etc. See the advertisement. -Dr. Adams' Turkish bath establishment,

311 N. 7th St., St. Louis, is one of the institutions of the city. There would be very little sickness, if every one could take a bath there once or twice a week. It not only thoroughly cleanses the skin and opens the ores, but it is a certain relief for all malarial disorders. There need be no fear of injury. We have taken hundreds of these baths and not one without benefit. Dr. Adams is an old and experienced physician.

-Inclosed please find P. M. O. \$1 for RURAL of next year. I take much interest in your sorgo department. Has Mr. W. Lemm of Wabasha Co., Minn., given his experience of em ploying air in concentrating sirup in open pans? Why not use the old Taylor sack filter for clarification of sorgo juice and sirup? About twenty years ago I tried the sorgo business in Missouri. Sirup was twenty-five cents a gallon.—Yours respectfully, Ernest Heck, an old sugar refiner of Germany, Nauvoo, Hancock Co., Ills., Nov. 29th, 1833.

-I am a subscriber and reader of the RURAL WORLD and am well pleased with it, but, have one very serious objection to it and that is, that it reaches us on Sunday morning and I find it impossible to keep out of it until Monday. I wish to purchase about ten or twelve unregistered Jersey heifers that have been bred to registered bulls. Also a to port, although the trip has been made in three days and a half.

The subjoined paper is from the pen of a can find such a lot at reasonable prices. Will distinguished Austrian Savan, a member of want them within the next thirty days ... A. W. Foster, Marlin, Texas.

-In your issue of Nov. 29th, you will see in scientific observations: "The fact that gives most importance to the plateau of Hondu"P. M. K." from Kansas, what the undersigned had to say as to the severity of the pres ent winter. Go back to it, and see if his predictions have not yielded more facts than Higgins's or anybody else's. From the developments of the past week, the thermometer here registering 20 to 30 degrees below zero, it must be admitted that there was some truth in my assertion that the muskrat was nature's weather prophet, and that we would have the coldest winter your representative ever saw, and that cattle who were left to the protection afforded by a barbed wire fence would be frozen solid. J. W. H. Pittsburg, Kas., Jan. 7th, 1884.

who have been known to our readers by their dation whatever tor his statement, he advertisement in another column, as the the tips must have made him sore. And hereafter the firm will be known as Nichols & Murphy, while the Wind Mills, Feed Mills, Corn Shellers, Pumps, etc., for which the old firm were noted, will not only continue to be ade by the new firm, but will, if possible e improved upon.

All those contemplating purchasing any one of these machines, should first send to Nichols & Murphy for one of their descriptive circulars, which they issue free on applica

-Please find enclosed \$1 for your very val able paper. I think the Horse departmen worth three times the price of the paper. The corn crop in this section of Wisconsin was a total failure this season. I raised Al syke clover enough to keep ten hogs in good thriving condition this winter, and threshed thirteen bushels of seed. I had seven cres in all, threshed part for seed. I think it is the finest pasturing clover raised for all kinds of stock. It is a perfect bee pasture We have some Percheron and Clydesdale horses here. What we most need here is a good jack. There is not one in this part of the State. One, fifteen hands high, weight one thousand pounds, would make more money here than any stallion that would cost one thousand dollars. A. M. Barnhardt has advertised in your paper just the one, but does not name the price. Col., I wish you all a merry Christmas.—Roswell Smith, Sparta, Monroe Co., Wisconsin Many good jacks are raised in this State, and son good lacks are raised in this State, and son of your enterprising breeders could not d better than to correspond with those whadvertise them in the RURAL WORLD. If or man will not, or can not, assume the responsibility of buying, let a number club togethe and do so.

The sale to be made by the administrator of Mr. R. W. Gentry's estate will attract the attention of sleep men generally. M. Gentry to the step of the sleep men generally sleep the sleep men generally sleep the sleep that to our knowledge spent thousands of dollars in an attempt to get the very best that could be found in Vermont. Apart however from his own purchases and the sheep bred therefrom, the sale includes hundreds of sheep bred from his father's flocks which, though not eligible to registry, are nevertheless excellent sheep and worthy of the attention of breeders. A notice of the sale with description of all that is to be sold may be found in our advertising columns to which the reader is referred.

The Horseman.

The National Trotting Association now numbers 218 members. New York is repre-sented by twenty-one, New England thirty-six, California twelve, Texas three, the re-maining 146 being scattered through the Middle and Western States.

Yes, and they might be represent ed by a great many more, if they did not charge such high fees for did Mo.

Mississippi Valley Horticultural Society at
Kansas City, Jan. 22d, 23d, 24th and 25th,
1884.

Month Franch Comments and Straight Stra no other association would such a policy be pursued.

> The breeders of fine stock not only want to improve their stock, and their farms but also to improve themselves. They need culture, polish. They should associate with gentlemen of intelligence and social position, they should converse with them, draw out their views and not be afraid to present their own opinions in a polite manner, if they differ with them. They should read and reflect, and write for agricultural papers and not be afraid to let their light shine. There is a very great difference in men engaged in the breeding of fine stock in regard to their ability to sell. Some men will get double the prices for animals of precisely the same breeding and quality, that others and it is because their standing and qualifi-cations are better. Every man who goes into the breeding business should strive to get up on the highest round of the breeding ladder. There is no profession more honor-able or requiring more intelligence and skill, or that will bring better returns, if properly pursued. It is one of the highest oranches of farming.

> The news comes from California that Director, son of the great sire of trotters, has lately trotted a quarter in thirty-three seconds, a 2:12 gait. It would not surprise us if his half-brother, Jay-Eye-See, had to look his hair-brother, Jay-Eye-See, had to look out for his laurels, and keep himself in tip-top condition to keep out of the way of Di-rector next summer. And then Phallas, where will he stop? With only a trifle more of urging he would now stand ahead of Smuggler, lacking only % of a econd now of beating his time. If he has good luck Phallas will reduce his record 2 or 3 seconds next summer. Col. McDowell, of Ashland, Lexington, Kentucky, acted wisely in purchasing the sire of such phenomenal trotters, and if he has no bad luck with him, will not only get back all the money paid for him, and much more, we hope, but add many more of his get to the list of the fastest trotters of this decade. Director is full brother to the mighty Dexter, and his get have all the fire, indomitable spirit, and mitable spirit, and ameness of that great brother.

Anteo trotted on December 15 a m i le im 2:32 4, after warming up miles in 2:32 and 2:234; after warming up miles in 2:32 and 2:234; The fractical timer the third mile was :354, 1:11, 46. The four-year-old in tips much worn. Apparently this is a triumph for tips. Anteeo is a wonderfully good horse, but we incline to the opinion that if tips had not made him sore he would not require so many warming up miles.

The above is from the Turf, Field and Farm, and of course was written by Mr. Busby. The ear marks are in the closing sentence. When

ear marks are in the closing sentence. When he takes a position he takes it as a man does a wife—for better or for worse, and he never deserts it. We think he would no more easily be divorced from the one, than the other. He said some years ago that to breed trotting horses, a strong infusion of running (thor-oughbred) blood was important, and though the experience of breeders has proved that position untenable, yet "though vanquished he argues still," and will not be divorced from that position. And so with tips. He said they would not do, and no matter what results are obtained by their use he gives the poor tips a kick every time he copies any-thing about them. He has copied articles written by Mr. Simpson, or rather purported to give their substance, and so distorted some of them as to make Mr. S. quite angry, and in the article above he had to hit them again, of course. He sees that a four-year-old stallion colt that served upwards of fifty mares the past season, and has never worn anything but tips in his life, has trotted in 2:20% and the tips on all of his feet aggregating only about eight ounces, and yet he concludes his little note "but we incline to the opinion that if tips had not made him sore he would not require so many warming up miles." He is estopped by the great speed made, under the circumstances, from saying that the tips impeded his speed, so he must find some -The firm of Nichols & Daggett, at Elgin, Iil., other fault with him, and, without any founmanufacturers of the Nichols Centennial Mr. Busby, why should the tips make him Wind Mills, have dissolved partnership, and sore? Is it the great weight of the tips-sor two ounces on each foot? It is weight that horses carry on their feet, more than any thing else that makes them sore. It is very common for fast trotting horses to carry more than a pound on each fore foot, and with very fast speeding, and considerable of it, they might become sore before—when they could trot the same distance and with one-fourth of the weight of iron and not be most any way, can be improperly driven on a very hard track, and get sore, but so exerienced and skillful a trainer as Mr. Simnon would not be guilty of any such cruelty.

And now in reference to the warming up

miles. Mr. Busby knows that when any very fast miles have been shown by any of the great trotters such as Goldsmith Maid, Rarus St. Julien, Jay-Eye-See, it was not attempted in the first heat. They invariably trotted on heat in the race first. And why? To work off a little of the wire edge, to steady the horse, to relieve him of any of his surplus energy, to open his pores and start the per spiration, to expand the lungs and get the pulsations of the heart in harmony with his breathing power so that every part of the system would work together like clock work and without friction. And with a voung orse—a colt that had probably never driven so fast before, it was all the m portant to work off any excessive spirit-to eligve him of any desire to over-trot himself and to make him steady and reliable. So he gave him an easy mile in 2:32 which, considering the great speed he possessed, was only play for him, and did not sufficiently tone down his high spirit. Then he gave him a little faster mile 2:37%, and thinking he could then rely upon him, that he would prove steady he gave him his fast mile of 2:20%, and we think he showed excellent judgment in his management, and that the charge of tips making him sore was uncalled for. Anteeo is a colt of high breeding and high mettle, and such horses need considerable work to put them in shape to show great ble work to put them in suggestion the mile. speed, and be steady throughout the mile. But Mr. Busby would not swallow Anteeo sne "'i beat Jay-Eye-See. He has said they are of no account and he will stick Mr. J. V. Stryker, of Jerseyville, Ill., ap-

and dam from the best trotting blood.

and dam from the best trotting blood.

Clay Cuyler ought to make not only a grand horse, but a sire of fast trotters. He has about the right amount of Clay blood to suit the public, and to the combination of the Hambletonian and Clay blood are we indebted for some of our fastest trotters.

Mr. Stryker is within halling distance of Mr. Stryker is within halling distance of rebruary. About forty head will be offered, the stranger flyedy the stranger flyedy with the property of the stranger flyedy.

heir own ffer ect.

be

at the time, should be expressed.

1. The amount of grain is correctly stated; but the colts to be fed this amount were weanlings, from 6 to 10 months old. In addi-tion to this ration of grain, a pint of oil meal was fed daily to each colt, and all the hay he would eat. The hay was the sweetest as best that could be made from the cultivated grasses. Excellent shelter was provided with the free range of an open yard during the day. Absolute regularity in food and are was maintained.

Comparison has been frequently made be-tween coits treated as above and colts allow-ed all the hay and all the grain they would eat. Such comparison has always resulted in favor of the colt with a limited supply of grain and a better ration of hay. Two May (last) colts in our yards weighed January 1, respectively 740 and 776 pounds. It is true they have had a wheat bian ration in addition during the fall, on account of having the horse distemper.

We have a neighbor who feeds upon the other plan. They have free access of oats, hay, water and shelter. At two years old they do not average as large as our yearlings,

hough of the same stock.

The loss to the farmers alluded to, was not in the feeding of grain to colts so much as to meture horses. As a rule, growing stock is under-fed in more cases than over-fed.

Respectfully, S. A. KNAPP.

Ames, Iowa.

Horse Notes.

It has been said that Goldsmith Maid has trotted in 232 heats in 2:30 or better, and has won \$364,200 during her trotting career, and aptured 121 races. American Girl won \$118.-100 in 49 races. Fullerton won \$102,035 in 32 races. Flora Temple won \$90,000 in 86 races Honeful, \$80,000 in 49 races. Lady Thorne 579,575 in 41 races.

SALE OF YOUNG SENTINEL.-Dr. D. T. Hill. Syracuse, Nebraska, has purchased Young Sentinel, bay horse, foaled 1869, by Sentinel, (son of Hambletonian and brother to Volunteer), dam the Millspaugh Mare, by Seely's American Star; 2d dam by Gridley's Roe-buck. Young Sentinel made his record of 2:26 at Fleetwood Park in 1877 and is credited with 13 heats in 2:30 or better.

It is roughly estimated that 2,000 heats vere trotted last season in 2:30 or better, 351 horses equaling or beating that time in pub-lic races. Of these horses 192 are new comers and 150 old performers. Of the latter seven ty-four reduced their records the past season, while eighty-five did not reach or only equaled their previous best time. The sexes were divided about as follows: Stallions, 79; were divided about as follows: Stallions, 79; mares, 130; geddings, 141. In color the bays strongly predominate, numbering 182, the browns and blacks 90, the chestnuts 52, grays and whites 24, roans 11, and duns 2.

The racing stable of Col. Chas. L. Hunt, of St. Louis, will be trained in 1884 by Richard Pryor. The stable was handled by Pryor last season with judgment and skill and made quite an enviable reputation. The stable will be comprised of the following horses: John Davis, ch g, aged, by Harry O'Fallon,

April Fool, ch c (4). by imp. Intruder, dan Etta Powell.

Keokuk, b c (2), by Long Taw, dam Etta Rhadamantha, bf (2), by Rhadamanthus

dam Barbary. Poweshiek, ch c (2), by Chariton, dam Lady Minnechee, b f (2), by Chariton, dam Plove

Wing. Ages from Jan. 1, 1884.

clouded by doubt and uncertainty. One year ago it was thought that Edwin Thorne would be the shining star of the campaign of 1883.

He had beaten the great Clingstone and all

He had beaten the great Clingstone and all others that opposed him, and his owner and trainer were confident that; his supremacy would be more marked after winter had been succeeded by the blossoms of [May. But the summer came and faded and the horse never developed the power that he had shown when he had Clingstone for an antagonist. The he had Clingstone for an antagonist. The fluctuating weather told upon him, and Turner bewailed his/ioss of speed. Finally at Springfield the great chestnut was prostrated with bronchial pneumonia, and then he was shipped to Thorndale and his should be a specific to the state of the should be supposed to the should be supposed t the rowalled his/ioss of speed. Finally at a raildly recovering his health, and with bronchial pneumonia, and then he was shipped to Thorndale and his shoes removed. He is rapidly recovering his health, and probably will justify in the summer of 1884 the promise of 1882. Capt. Lewis was a regular meteor in the turf sky one year ago. He came from the plow to the track, and trotted with such grace and strength that the rosiest kind of a future was painted for him. It was predicted twelve months ago that he would equal the 2:10% of Maud S.; yea, more than this!/It was even suggested that a mile in .08 was within his capacity. The campaign

of 1883 is drawing to a close and Capt. Lewis has not been seen in public. The leg which was injured by the reaper when he was at Mr. J. V. Stryker, of Jerseyville, Ill., appears before our readers in an advertisement of his trotting stallions. Any one by reading his advertisement, will see that he has used the best judgment, and spared no expense to secure the choicest trotting blood the country affords.

Of 1883 is drawing to a close and Capt. Lewis has not been seen in public. The leg which has not been seen in public. The leg which has not been seen in public. The leg which has not been seen in public. The leg which was injured by the reaper when he was at work on the farm developed a weakness; and thus kept him in the background. With these than the country affords. ask "What of the future of Jay-Eye-See?"
Young Harold, half brother to Mand S., is a
He has had very hard work for an aged horse. Young Harold, half brother to Mand S., is a horse of great substance, and ought to get speed, and if he does not, his produce will show size and quality and be such a horse as will command buyers in any market. Exile is a well bred horse descended on side of sire and dam from the best trotting blood.

He has nad very mard work to rule angle to be a lone a five-year-old, and what will be the condition of the muscular system when relaxation begins? We hope that the little a well bred horse descended on side of sire will go on and improve; that he will be a fixed star instead of a flashing meteor, but we cannot ignore the lessons of the past.—

Mr. Stryker is within hailing distance of St. Louis, being only a couple hours ride from that city. He has a large and valuable farm well set in grass, and hopes to receive much patronage from St. Louis horsemen. We can say for Mr. Stryker that he is a thoroughly reliable gentleman, a square man in all his transactions, and all who do business with him will have no cause to regret it. His enterprise merits, and we feel sure will receive success.

February. About forty head will be offered, sired by fisst sons of Rysdyk's Hambletonian, sired by fost sons of Rysdyk's Hambletonian, sired by fost sons of Rysdyk's Hambletonian, which is consisting of young stallions, fillies, broodermares and geldings, sired by Bismark, brother to Gazelle 2:21, and brother in blood to Electioneer, sire of Hinda Rose of Rysdyk's Hambletonian, which is consisting of young stallions, fillies, broodermares and geldings, sired by Bismark, brother to Gazelle 2:21, and brother in blood to Electioneer, sire of Jay-Eye. With him will have no cause to regret it. His enterprise merits, and we feel sure will receive success.

An exchange observes that Prof. Knapp, in discussing the question of how to bring colts to maturity best prepared for many years of usefulness, claimed to very stiscoop, one was years of the same of the same and horsomen of lows such the farmers and horsomen of lows such the farmers and horsomen of lows such and two quarts of the same and horsomen of lows and the same that we quarts of the same and horsomen of lows are the same that the colts and young shaped the colts and young things.

W. H. Wilson, of Abdallah Park, Cynthiana, Ny, will sell on Feb. 13, at his Branch Stock sharon Geneva 10497 at the head of herd of the same of horsomen of lows are the same than the colt will eat twice as much and not be as strong. Giving more spain makes rapid growth, but it is like stuffing and thoroughbred stock, find an animal for market. When you desire to produce horses for endurance or breeding they must be matured more slowly. Barrenness can be produced nine times out of the day, viz: Hambletonian, Mambrino, Pilot Alton, ill., Breeder of Holstein Cattle, Course of Lake of the Law of the day, viz: Hambletonian, Mambrino, Pilot Alton, ill., Breeder of Holstein Cattle, Course of Lake of Lake of the Law of the day, viz: Hambletonian, Mambrino, Pilot Alton, ill., Breeder of Holstein Cattle, Course of Lake of Lake of the Law, viz: Hambletonian, Mambrino, Pilot Alton, ill., Breeder of Holstein Cattle, Course of Lake of La Catalogues can be had on application. Ad-W H WILSON Abdallah Park, Cynthiana, Ky.

Buchu-paiba," Great Kidney and Urinary Cure. \$1.

BREEDERS' DIRECTORY.

STALLION FOR SALE.—Bay color, foaled in 1880, by imported fmp, a tull-blood Norman, dam Old Dolla, a first-class bay mare. Also Suffolk Swine, pigs ready for delivery in March. E. J. FILE, Hillsboro, Montgomery County, Ill.

W. J. MILLER, Breeder of Short-Horn Cattle, Percheon Horses and Berkshire Hogs, Turkey Hill Farm, Belleville, St. Clair County, Illinois.

B. SCOTT, Sedalia, Mo., breeder of Short Horn Cattle, Poland China Hogs and Cotswold Sheep. Anything in the herd for

UERNSEY CATTLE, Oxfordshire Sheep, Plymouth Rock Fowls, Pekin Ducks, White Holland Turkeys, all pure bred and low price. Henry C. Eckert, Belleville, Ill.

MERINO SHEEP, Bronze Turkeys and R. T. McCulley & Bro., Lee's Summit, Mo. Prices reasonable.

W. BLACKFORD, Bonaparte, Iowa, Breed china Swine of best strains. Correspondence invited. Prices reasonable. Satisfaction guar-

HEREFORD AND ABERDEEN - ANGUS CATTLE—Gudgell & Simpson, importers and breeders, Independence, Mo. An inspec-tion of their herds is invited.

J. BAKER SAPP, Columbia, Mo., breeds J. large English Berkshire Swine, Merino Sheep and High-Class Poultry. Catalogue free.

CHORTHORN CATTLE.—J. F. Finley, Breck enridge, Mo., breeder of Shorthorn Cattle and Berkshire Swine. Imported Kirklev-ington Lad at head of herd. Stock for sale at

KANSAS SHORTHORN CATTLE—Robert of Shorthorn Cattle of the best families. Stock for sale. Inspection invited.

TAMES H. PARKER, Columbia, Mo., breeder of Shorthorn cattle, Southdown and Cose-wold sheep. Grand Duke of Sharon 29739 at head of herd. Prices reasonable.

A NGUS AND GALLOWAY CATTLE-W. H. A and A Leonard, Mount Leonard, Mo., importers and breeders of Angus and Galloway cattle and Spanish and native Jacks.

M. McQWITTY, breeder of Merino sheep, Berkshire swine and high class Poultry, Hughesville, Pettis Co., Mo. Has 490 rams ready for this year's service.

HIGH CLASS BATES CATTLE, bred and for sale by M. W. Anderson, Independence, Mo. Craggs, Barringtons, Harts, Places Acombs, &c. Kirklevington Duke 2d 32390 at head of herd.

W. H. & THOS. C. EVANS, Sedalia, Mo., Breeders of Short-Horn Cattle, Berk-shire Hogs. Bronze Turkeys, Plymouth Rock Chickens and Pekin Ducks.

R. W. GENTRY, Sedalia, Mo., breeds and bet quality. Rams and ewes always for sale at prices as low as the lowest

T. C. LIPPITT, Shenandoah, Iowa, breeder of and dealer in American Merino sheep. ize, constitution and amount of cleansed tool a specialty. Stock rams for sale.

WILLR. & JUNIOR K. KING, Peabody Marshall, Mo., breeders of Short horse VV Marshall, Mo., breeders of Short-horn cattle Viscount Oxford 7th, 49439, Imp., and Grand Duke of Clark, Jr., head the herd.

SAMUEL JEWETT, Independence, Mo., importer and breeder of registered American Merino sheep. Satisfaction guaranteed to

CHAS, F. MILLS, Springfield, Ills., imported and breeder of Clydesdale horses, Jersey cattle, Cotswold sheep and Berkshire swine. Purity of blood and reasonable prices guaranteed.

COLMAN'S

JOHN MORRIS, Chillicothe, Mo., breeder of Short-horn cattle, Berkshire swine, Cots-wold and Merino sheep. Stock for sale at rea-sonable prices. Write.

JACKS.—I have for sale Jacks, Hogs, and grade and thoroughbred Shorthorn bulls. W. H. BASS, Columbia, Mo.

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ay, 15 1-2 hands high, fooled 1875, set by Belmont, 1st
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he dam of Rosalind, record 2:21 3-4, and Donald,
coord 2:27) by Brown Pilot. King Rene is the sire
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n adheres to malice and its cloak es in polished course, they easy run ly sting, and this you say, is fun. of, my friend, a hearty joke I love, dulation's yoice, so far abové.

auch, why you so serious take,

bked in cultured, grandest style, equal worth, I would compile. slow, to catch another's wit, ars so well, it surely seem xt a friend or foe, you tickle hard, he can, from fun, be just debarred REV. GEO. A. WATSON.
P. S. See RURAL WORLD October 25.

Bon Ami's Pointed Pen.

DEAR CIRCLE: I know I shall not be contradicted when I say I have just done full justice to my Christmas dinner. I um now going to see what I can do for an article. How many of my readers will write an article at this moment? You may say I cannot write well now, but I should be inclined to think this be my me terpiece, or chef d'œuvre, le French say. A Texan, just after g the best dinner he can get, posses the proper degree of lankness for ffective work. At any rate I am going to prove to my readers that I am a temperate man, either from choice or necessity.

I do not enjoy Christmas now as I once did. My greatest pleasure now is in membering the happy days when I was a child, and in seeing the little ones enjoying themselves. Children only

enjoying themselves. Children only are truly bappy.

Last night I went down town, as the phrase runs, rather too late for the christmas trees, and after seeing the hapall boy" enjoy himself with his fire-late. For a time, I went to see John Dillon in State's Attorney. I was treated very kindly, and on account of my deafness, was given the best seat in the house. The playing was very good. I noticed men, two and three times as old as I am, shedding tears. I did not discover myself shedding any. I trust I am not without pity for real human suffering, but I shall waste no tears on the sham article. I laughed at the humorsham article. I laughed at the humor-ous sayings—"excuse my Latin." There were several girls in the play very fair to book upon. I enjoy looking at a pretty girl. Woman, as Milton has truly said, as the most beautiful work of creation.

After coming from the play I read my RURALS. The best for the last always. I see the indefatigable Frank has succeeded in getting another article published. Considering his many failures, this is reason for congratulation. Frank is very angry at me for saying he is a member of the Kansas Legislature. He is so angry, in fact, as to compare me to a colored cook, and the cook has very colored cook, and the cook has very much the advantage in the comparison. This is, I suppose, what Shakspeare would call an odorous comparison. I do not at all feel insulted at the comparison. Considering the high position the poor colored race holds in the hearts of Republicans (at election time), I do not know but what I should feel complimented. The election of the Republican control of the companion of the compan

y are very great; hence it is not y are very great; hence it is not he great a loyal Republican like has ank should, even at this early date, ply win to think of the colored people. The as ank says I have spoken of some of minateants and says I have spoken of some of minateants are made and the same of minateants and the same of minateants are made and the same of minateants are made and the same of minateants are made and the same of the circle of the same of the same of the circle of the same of ere is reason to have backslidden.

stantially accused me of e of the ladies, and how aggeration or much egotism, agies have agreed with me for to who has supported Frank. It to me Frank is as gallaut a knight Toon Qaixote, Don Juan, or Falstaff. It is a matter of great surprise that Juis still a contributor to the Circle. hould by all means have sent his nation as a member of the Circle his satirical article on the editors of URAL. He, like Baron Munchausen,

I dr. not understand, Juvenis has lost all self-respect, and is even worse than the self-respect, and is even worse than the self-respect, and is even worse than the self-respect, and is even worse. Mormonism. Spiritualism, Perpetual Motion, Gipsy Fortune-Telling, Phrenology, Footology and Noseology.

The Circle has been greatly improved in the last few months. My readers may not all agree with me as to the cause of the improvement. I propose the concluding this letter that we drink the health of Tug. Seth Spriggins, Jo-siah, Observer, Norman Eastman, and confreres.

Mothers and Sons.

Mothers, I think, understand the nature Mothers, I think, understand the fature and character of their daughters much better than those of their sons, who are to their an inexplicable mystery and the seture of much, very much anxiety. And the reverse of this is, true with fathers,

who do not and cannot understand the make up of girls or the why and wherefore of their many peculiarities.

Under ordinary circumstances, both carents being alive, no harm is likely to from this want of knowledge on either parent; though this is true, because in some families ther parent possessing more

ther parent possessing more force of character than the other, takes the lead of the household and the supervision of everything, in which case both sons and daughters will become subject to a very great extent to the superior mother, and ever courteously, tenderly

mind, the stronger will, the controlling power, and boys and girls may cor-

wrong—fathers that they thoroughly un-derstand the nature and character of their daughters, and mothers their sons.
I will not dispute the point but risk the assertion that 'tis seldom true.

The reason for this is apparent; we too seldom analyse human nature, divide it into its several parts, to discover which under certain conditions is likely to ex-ercise a controlling power over all other parts; but content ourselves by judging of all others by ourselves and suppose them influenced and controlled just as we are. Herein we are unjust and greatly to be blamed, for as no two faces are alike so no two characters.

I have in mind two mothers, each having a son about twelve years old, and whilst both are bright, enterprising, intelligent boys and good boys, too, their mothers are sorely puzzled to control and properly educate them. They are loving, kind, affectionate and obedient loving, kind, affectionate and obedient good boys; and they are not, but just the reverse; they are wilful, unruly, dis-obedient, unkind and subject to no control, and the mothers remind me much of a hen with one chick and that nuch or a nen with one chick and that chick a duckling and that duckling as naturally taking to water as the hen to scratching, and oh, horror of horrors! when that hen first goes near a pool and witnesses the rashness and the boyish fool-hardiness of that duckling taking to

water.
But in looking on we are able to realize

But in looking on we are able to realize that those fears are groundless, that dear little one chick isn't going to be drowned and all the clucking and the scratching and calling cannot and should not wean the young bird from the water.

But the mother of the boy will say the bird is not doing wrong, it is only following its own instincts. Ah! are you sure you are right? Go ask the hen mother and she will tell you in the most impassioned tones, my darling and only chick is the most wilful and venturesome thing in the world, it will not do what I thing in the world, it will not do what I wish, and persists in doing what I tell it not to do, and oh, it will get drowned sure.

And I am tempted just here to remark that the hen knows just about as much what is right and wrong for the duckling as the ordinary mother does for her boy or the father for his daughter; heterodox or the father for his daughter; heterodox as such teaching is, I know it to be true. I once heard a daughter of somewhere in the middle of her 'teens tell her mother who was trying to control her temper and doing so by scolding: "I am what you made me and cannot help answering back when I know I am right and you chastising me for doing wrong." So is it with children generally, a code of morals adapted to the parent is not always the right thing for children: always the right thing for children; hence we have the adage "boys will be boys." "When I was a child I did as a child, but now I am a man, I have put off childish things." "Milk for babes but strong meat for the men."

Mothers, be not over auxious; but be ye kindly affectioned, loving, gentle, kind; be blind to many little things that annoy and perplex you in your children. Set before them a good example and by Set before them a good example and by a word in season, a sound precept, for the memory of chitdhood will store them are up and recall them in the great future with a vividness and impressiveness that will irresistibly guide and control much of their manhood, and turn the wilful energy of youth, and the waywardness and wickedness (if you will) of youth into the full stature of the perfect man. Yet I hear those mothers say, yes, but Mr. Preacher you have not touched my case, you have not pictured my boy with all his wicked propensities; oh, he is such a trouble!

a trouble! Very well. Pray tell me who made little potatoes? And did he not surround them by conditions that they may be-come large ones. He may suggest, dig

and that he has a sound and manure them, then expect the harvest; but did he at any time say be continually laying them bare to the sunlight; to rake them about, scratch, tantalize, worry and annoy them? Nay, we is reason to believe ave backslidden. verily; but supply you the conditions and the Lord will take care of the little potatoes.

POLLIWOG.

FRIENDS OF THE HOME CIRCLE: I have been reading a book, the title of which is, "Golden Thoughts on Mother, Home and Heaven," from poetic and prose literature of all ages and all lands. I find such beautiful thoughts there, that I wish my friends to share them with me; so I will note down a few for the benefit of our readers. A very appropriate introduction is given by the Rev. Theo. L. Cuyler, D. D. He says in one place, "In the main his selections seem to have been made with excellent taste: place, "In the main his selections seem to have been made with excellent taste; the ruling motive being to choose those things which would be the most practical and the most profitable. Many of them are already familiar to us. but hat very fact proves their value. There are other readers coming on the stage of life who need to know these 'household words,' and one object of this volume is to carry these coined thoughts of standard value into a wide and permanent cir-

What can be more beautiful or appr priate as an opening poem than the fol-lowing lines by Muckle:

There are three words that sweetly blend, That on the heart are graven; A preclous, soothing balm they lend— They're Mother, Home, and Heaven.

They form a chain whose every link Is free from base alloy; A stream where whoseever drinks Will find refreshing joy!

If from our side the first has fied, And home be but a name, Let's strive the narrow path to tread, That we the last may gain!

I cannot do justice to this excellent book in one letter, so I will confine myself this time to the first word-"Moth er!" And oh! how much there is in that word! I have been absent from home nearly a year, now, and I am beginning to realize something of what my own mother is to me. 'And when the world looks cold and surly on

Where can we go to meet a warmer eye
With such sure confidence as to a mother?"

My mother, at that holy name
Within my bosom there's a gush
Of feeling which no time can tame,
A feeling which, for years of fame,
I would not, could not crush."

—Geo, P. Morris.

power, and boys and girls may correspondingly suffer.

This is however peculiarly true when one or the other parent is dead, and the management depends upon one that is utterly unable to understand the nature and character of the child to be trained for weal or woe in the journey of life.

Many parents will insist that I am wrong—fathers that they thoroughly understand the nature and character of —ANON. ANON.

How sadly beautiful is the following: 'And canst thou, Mother, for a moment think That we, thy children, when old age shall

It's blanching honors on thy weary head, Could from our best of duties ever sarink? oner the sun from his high sphere should

Than we, ungrateful, leave thee in that day, To pine in solitude thy life away, Or shun thee, tottering on the grave's cold brink.

may roam, O'er smiling plains, or wastes without a tree

Still will fond memory point our hearts to And paint the pleasures of thy peaceful

-HENRY K. WHITE. Before this has reached the eyes of my readers I will have been home, and seen

readers I win have been home, and seen the dear ones who are waiting for me.

For the first time in many years our home-circle is complete; all ard there now, gathered from far and wide, perhaps for the last time, who can tell? How sad are the thoughts then, the lines above convey! The following lines are so true, it seems like my own heart would break, as I think how much those "hands" have done for me, and I so ungrateful, thoughtless:

"Such heantiful heautiful hands! Though heart were weary and sad. These patient hands kept toiling on That children might be glad.

I almost weep, when looking back To childhood's distant day, I think how these hands rested no When mine were at their play. 'Such beautiful, beautiful hands!

They're growing feeble now; For time and pain have left their work On hand, and heart, and brow -ANONYMOUS.

Alone she moves, the queen of her own quiet -REV. MARK TRAFTON. None knew thee but to love thee,

None named thee but to praise

-FITZ GREENE HALLOCK When the yellow fever was raging in New Orleans, a young man left his Northern home to wait on and nurse the Southernsufferers; he died, and just as the coffin was being closed, an aged woman cried, "Stop! let me kiss him for his mother." A very pathetic poem was written, of which the following is the first slanza:

"Let me kiss him for his mother Ere we lay him with the dead, Far away from home, another Sure may kiss him in her stead How that mother's lips would kiss him Till her heart would nearly break! How in days to come she'll miss him Let me kiss him for her sake."

Rev. Mark Trafton has this to say Hail, Woman! Hail thou faithful wife and mother

than this, by Dr. A. A. Hodge. "The love principle is stronger than the force principle." The "faithful wife and principle." The "faithful wife and nother" is the woman who will use this "flow principle," in all cases. It is easy to tell on going into a stranger's family, which is the predominating influence in which is the predominating influence in their home government and family training, the "love principle" or the "force principle;" for, as Dr. Cuyler truly says, "show me the mother, and I will show you the man." A good mother! What a precious boon that is to help a young man onward, in the race of life! How many young men have made a wieck of life at the very start, because their parents tried the "force principle" to "break them" of some evil habit, when all the trouble was, the poor boys needed kindness, sympathy, appreciation—in fact, "motherly love." I have known boys, when the stiff rule of compulsion was tried upon them without success, to say to me, with tears in their eyes, that was tried upon them without success, to last arrival in Liverpool to learn that my say to me, with tears in their eyes, that they would yield freely to the kindly inmerchant, had suddenly died of Bright's disease of the kindle was a considered to the considered to fluence of love, but to force, never! The disease of the kidneys, and consider my-savior, Himself, taught that the influence self extremely fortunate in having taken

'An ounce of mother is worth more than

"Napoleon believed that the mothers of the land could shape the destinies of his beloved France is mothers." There is one video the said. "The great need of France is mothers." There is one video the is one vision that never fades from the soul, and that is the vision of mother and home. No man in all his weary wanderings ever goes out beyond the overshadowing arch of home."

—Rev. H. H. Birkins.

"We who have grown to realize to "We who have grown to realize to whom we are debtors, are thrilled with delight as we think of those who have been the parents of our intellectual life—who seem nearer to us than our familiar friends,—Milton, Burns, Scott, Macauley, Bryant, Longfellow, Bancroft and a host of others. How they have covered our lives with a rich broidery of beautiful and inspiring thoughts, so that to live in the same world, seems a benison of blessing. So may the mother son of blessing. So may the mother weave into the life of her children thoughts and feelings, rich, beautiful, grand and noble, which will make all after-life brighter and better.—A.W.K.

I will close with the following beautiful verse by E. L. Cassanovia: 'Among the names to mortals given,

There's none like mother, home and heaven For home's no home without her dare And heaven, we know she will be there; Let us then, while we love each other,

Remember and be kind to moth

A MYSTERY OF THE SEA.

The Fate Which Overtook' the "City of Boston." -Captain Murray's Ideas and Experi-ences.

A few years ago, the City of Boston ailed from harbor, crowded with an expectant throng of passengers bound for foreign shore.

She never entered port.

The mystery of her untimely end grows deeper as the years increase, and the Atlantic voyager, when the fierce winds howl around and danger is imminent on every hand, shudders as the name and mysterious fate of that magnificent vessel are alluded to.

Our reporter, on a recent visit to New York, took lunch with Captain George Siddons Murray, on board the Alaska, of the Guion line. Captain Murray is a man of stalwart build, well-knit frame and cheery, genial disposition. He has been a constant voyager for a quarter of a century, over half of that time having been in the trans-Atlantic service. In the course of the conversation over the well-spread table, the mystery of the City of Rector was alluded to

well-spread table, the mystery of the City of Boston was alluded to.

"Yes," remarked the Captain, "I shall never forget the last night we saw that ill-fated vessel. I was chief officer of the City of Antwerp. On the day we sighted the City of Boston a furious southeast hurricane set in. Both vessels labored hard. The sea seemed determined to sweep away every vestige of life. When day ended the gale lid not abate, and everything was lashed for a night of uneverything was lashed for a night of unusual fury. Our good ship was turned to the south to avoid the possibility of ice-bergs. The City of Boston, however, undoubtedly went to the north. Her boats, life-preservers and rafts were all securely lashed; and when she went down, everything went with her, never to re-appear until the sea gives up its deed."

What, in your opinion, Captain, was the cause of the loss of the City of Bos-

"The City of Limerick, in almost precisely the same latitude, a few days later, found the sea full of floating ice; and I have no doubt the City of Boston collided with the ice, and sunk imme

Captain Murray has been in command of the Alaska ever since she was put in commission and feels justly proud of his noble ship. She carries thousands of passengers every year, and has greatly popularized the Williams & Guion line. Remarking upon the bronzed and healthy appearance of the captain, the

neatiny appearance of the captain, the reporter said that sea life did not seem to be a very great physical trial.

"No? But a person's appearance is not always a trustworthy indication of his physical condition. For seven years his physical condition. For seven years I have been in many respects very much out of sorts with myself. At certain times I was so lame that it was difficult for me to move around. I could scarcely straighten up. I did not know what the trouble was, and though I performed all my duties regularly and satisfactorily, yet I felt that I might some day be overtaken with some serious prostrating distance. yet I felt that I might some taken with some serious prostrating disdull and then, again, shooting pain; through my arms and limbs. Possibly the next day I would feel flushed and unaccountably uneasy and the day follow ing chilly and despondent. This con-tinued until last December, when I was prostrated soon after leaving Queens-town, and for the remainder of the voy-age was a nelpless, pitful sufferer. In January last, a friend who made that voyage with me, wrote me a letter urging me to try a new course of treatment. I gladly accepted his counsel, and for the last seven months have given thorough and business-like attention to the recovand dusiness—the attention to the recovery of my natural health; and to-day, I have the proud satisfaction of saying to you that the lame back, the strange feelings, the sciatic rheumatism which have so long pursued me, have entirely disappeared through the blood purifying influence of Warner's Safe Rheumatic Cura which entirely endicated all these

Savior, Himself, taught that the influence of "love" was supreme, for He gave a new commandment, "That ye love one another, as I have loved you."

"The queen that sits upon the throne of home, crowned and sceptered as none other ever can be, is—mother. Her enthronement is complete, her reign unrivaled, and the moral issues of her empire are eternal. "Her children rise up and call her blessed." Rebellious at times, as the subjects of her government may be, she rules them with marvelous patience, winning tenderness and undying love. Scotland, with her well-known reverence for motherhood, insists that "An ounce of mother is worth more than "An ounce of mother is worth more than in face before him, so strong in all its outlines and yet so genial, and thought of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who caption from the terrible rheumatic troubles now so common might know of Captain Murray's experience and the worth of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who captain Murray's experience and the worth of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who captain Murray's experience and the worth of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who captain Murray's experience and the worth of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who captain Murray's experience and the moral issues of her empire and yet so genial, and thought of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who captain Murray's experience and the proposed in the industry of the innumerable exposures and hardships to which its owner had been exposed, he instinctively wished all who captain Murray's experience and the proposed in the industry of the innumerable exposures and hardshi are suffering from the terrible rheumatic troubles now so common might know of Captain Murray's experience and the means by which he had been restored. Pain is a common thing in this world, but far too many endure it when they might just as well avoid it. It is a false philosophy which teaches us to endure when we can just as readily avoid. So thought the hearty captain of the Alaska, so thinks the writer and so should all others think who desire happiness and a others think who desire happiness and a



DYE,



Hale's Honey HOREHOUND & TAR,

AN INFALLIBLE REMEDY.

seading to was assessed and in near survey week the organis cool, moist and in near survey.

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Corn Remover Kills Corns and Bunion



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saysaskeptic. "How specific for Epi-

plum Eating, Rheumatism, Spermator-hae, or Seminal Weakness, and fifty other complaints?" We claim it a specific, sim-gly, because the virus of all diseases arises from the blood. Its Nervine, Resolvent, Alterative and Laxative properties meet all the conditions herein Laxative properties meet all the conditions herein

NERVETCONQUEROR

causes above referred to.

To Clergymen, Lawyers, Literary men, Mcrchants, Bankers, Ladies and all those whose sedentary employment causes nervous prostration, irregularities of the blood, stomach, bowels or kidneys or who require a nerve tonic, appetizer or stimulant, SAMARITAN NEEVINE is invaluable. Thousands proclaim it the most wonderful invigorant that ever sustained the sinking system.

\$1.50. Sold by all Draggists.

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It is a well-known fact that most of the Horse and Cattle Fowder sold in this country is worthless; that Sheridan's Condition Fowder is absolutely pure and very valuable. Fowder is absolutely pure and very valuable. The short of the short

CHICKEN CHOLERA, stamps.

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ron, galvanized, and will outlast any two wooden machines. Agents wanted. Exclusive Territory. Our agents allower the country svemaking from \$75 to \$200 per month. Retail price, \$7. Sample to agents, \$3. Also our celebrated. KEYSTONE WRINGERS AT LOWEST WHOLESALE PRICES



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The o that by makes creame munity point to get one maker makes the hi in qual Mr. 8 one of paid us looking ley Da

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The difference between the dairy and creamery system of making butter is that by the dairy system each farmer makes butter his own way. By the creamery system the farmers of a community have one man at some central point to make it for them, and they thus get one kind and quality of butter. The maker understands his business and makes it with skill, and it commands the highest price in market. By the dairy system you have fifty or sixty kinds of butter, all differing more or less in quality. in quality.

P SAMABI-BVINE," ptic."How edicine be

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olism, ermator-fty other cific, sim-cises from rative and ons herein

or zoc. in il, \$1.30.

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WEST

Mr. S. T. Hopson of Girard, Illinois, one of the oldest dairymen in the West paid us a visit on Wednesday. He is looking forward to the Mississippi Valley Dairy and Creamery Men's Convention with a great deal of interest, and commends it as a move that ought to have been made long ago. He is a York State man, was educated to think cheese State man, was cutted at think cheese a more profitable article than butter, and, what is more, thinks so yet. He loves the idea that a pound of butter can be made at as little expense as a pound of beef, and has read with relish the articles to that effect in the RURAL WORLD, but, he says that three pounds of cheese can be made to one pound of butter, that cream cheese can be sold for from 18 to 20 cents per pound all the year round, in any market in the United States, will keep longer and sell better, and that there is more money in a combined cheese and butter factory than in the latter alone.

Atter alone.

This is a matter that claims the attention of dairymen and creamerymen generally, for anything that adds value to farm products is of interest to every farmer in the Western States. We look forward to this meeting as one of moment to the State of Missouri, and eminently calculated to develop a branch of business heretofore neglected, but beyond all question more profitable than it has been credited with.

By all means, let every one interested make it a matter of business to be at that

Home-Made Butter.

There is, perhaps, no good reason why one person should not be able to make butter as well as another, or that a person on a farm with but half a dozen cows should not make as good an article as a man at the creamery, having the produce of 500 to work up. These points will not, we presume, be disputed or denied. When, however, we turn to our market reports to see what home-made, dairy and creamery butter sell for, we find a difference that is simply amazing. Nor is this difference of a merely local character, but is found throughout the country, except in very rare and exceptional cases. There are private dairies in the East, for instance, that make butter of such an exceptionally high quality, that they are able to get for it at home from one dollar to one dollar to one dollar to one dollar to one dollar and a quarter per pound, all the year round. But where there is one that does that, there are thousands that make it of such a poor quality, as to be able to get no more than from ten to fifteen cents per pound, at any season of the year, and it is always a drag upon the market.

It must, therefore, be evident to even a tursory reader, that there is something butter as well as another, or that a person on a farm with but half a dozen cows should not make as good an article as a man at the creamery, having the produce of 500 to work up. These points will not, we presume, be disputed or denied. When, however, we turn to our market reports to see what home-made, dairy and creamery butter sell for, we find a difference that is simply amazing. Nor is this difference of a merely local character, but is found throughout the country, except in very rare and exceptional cases. There are private dairies in the East, for instance, that make butter of such an exceptionally high quality,

drag upon the market.

It must, therefore, be evident to even a cursory reader, that there is something wrong in our plans or methods, or in the ability to make an acceptable and marketable article, such as the general public desires.

It must, therefore, be evident to even a ster paying for packages and express charges, the butter for the year has netted him thirty-four cents per pound.

A little figuring will show that Mr. Drury has made his cows, in milk, produce him a fraction over \$120 per annum; a pretty good value for three or four good milch cows. Being asked how he fed them he replied: I feed my cows on grass all through the summer. drag upon the market.

It must, therefore, be evident to even a

this wrong, and what is it, at means is it to be remedied? nuestions which we propose to I that will be discussed more ne forthcoming Dairy and en's meeting, to be held in Wednesday and Thursday, be days of the present month of

fist, then, the wrong begins in our the being unable to produce the quality of milk from which a good article of butter can, by any possibility, be made. This can be remedied only by testing our

This can be remedied only by testing our animals and proving their capacity, or incapacity, of weeding the herd of the poor ones and fattening them for the butcher, and of getting others that are able to do better, to take their place.

Second. We make poor provision for the feeding and the protection of our stock, permitting our milch cows to feed at the straw-stack too often, and giving them no other protection from the rains and driving snow, and wind storms of the most inclement seasons, not failing, however, to call upon them morning and night to fill our pails with what we suppose is milkfilt for butter, or other human nourishment.

pose is milkfit for butter, or other human nourishment.

Third. We too often labor under the delusion that butter can be made from milk, no matter what it is made of, and by any person that can turn a churn, or handle and mould into rolls the white stuff that comes from it. It is needless here to say that there are good buttermakers, and others again who are not good, and who, indeed, ought to be allowed to do nothing but turn the churn, if that.

Here, then, is an illustration of what may be done by the use of well-bred cows in the first place, good feeding and handling in the next, and a business-like arrangement for the disposition of the butter when it is made and ready for market. Verily, business is business, and the man that milizes the means at his command to the best advantage is the man that makes the money.

Holsteins to the Front.

Editor Rural Worker of well-bred cows in the first place, good feeding and handling in the next, and a business-like arrangement for the disposition of the butter when it is made and ready for market. Verily, business is business, and the man that milizes the means at his command to the best advantage is the man that makes the money.

Holsteins to the Front.

whose butter now brings but eight to fifteen cents per pound, can sell their cream at the rate of 20 cents per pound, and besides have the skimmed milk left

and besides have the skimmed milk left for other purposes, how much more of a saving is effected?

This is what a central factory, usually called a creamery, is able to do, and these are the reasons why the RURAL WORLD has espoused the cause of such institutions, that labor may be saved at home, more money be made by the farmer, his own State or district supply its own wants, and build up its own industries instead of paying tribute to others and adding value to their farms. By these means the farmer is able to put more of his land in grass, save his own labor, avoid the necessity of so much hired help, enjoy better returns and much more leisure for mental enjoyments and home comforts. home comforts.

Brother farmers, these are facts. They are beyond the reach of cavil or uncertainty. Do they commend themselves to your best judgment? Or, are you willing to slave on for the merest pittance, as our fathers did before us?

The Mississippi Valley Dairy and Creamery Men's Association.

As heretofore announced, the meeting of this association will take place in the city of St. Louis on Wednesday and Thursday, 30th and 31st January. The programme of the meeting is now in course of preparation and we are advisable to the control of the course of t ed by the secretary that he will be glad to hear from any person who will deliver an address or read a paper. These will of course be short, perti-nent and of interest to those engaged in any department of the business.

any department of the business.

We expect the meeting to be eminently a practical one, and that the speakers will have experience in the department of which they speak.

It is understood that a cordial and cornect invitetion, is extended to these

It is understood that a cordial and earnest invitation is extended to those in anywise interested in the dairy or creamery business, be it the production of milk for city use, or of cream for the creamery or cheese factory. Those who contemplate the erection of creameries in their own neighborhood and those who manufacture any article that enters into consumption or use at such are cordially invited, and if they have anything to tell of moment to come prepared to to tell of moment to come prepared to tell it.

Those who would address the meeting or exhibit thereat any useful implement should address the Secretary, J. W. Sheppard, 600 Olive street, St. Louis, Mo., at once, advising him what they will exhibit or talk about.

cows on grass all through the summer, but when they come up to be milked, always give them a good feed of dry bran, consisting of about one gallon. In winter, however, when grass is short and sometimes not come-a-table, he keeps his cours practive least the trable. his cows pretty close to the stable, allowing them exercise in going to and coming from water, and feeding them on chopped sheaf oats moistened with water, and mixed with bran and crushed corn and cob meal. Two-thirds

A REMEDY FOR CURING

CONSUMPTION, COUGHS, BFONCHITIS, ASEHMA and CROUP.

As an Expectorant it has No Equal.

Rev. B. L. Selman, of the M. E. Church, gives his words in favor of

Rev. B. L. Selman, of the M. E. Church, gives his words in favor of Allen's Lune Balsan

"READ WHAT HE WRITES." Ga

"GREENVILLE, ALA, November 12.

"Dear S'vs:—Yours of October 20th to hand, and would have answered before now, but
having a supply of LUNG BALSAM, and by its use I was improving fast, I concluded to
wait awhile.

I have had a cough for about twenty years; last year I was troubled much. I thought I
would have to ce se traveling, but finding some of your valuable LUNG BALSAM in the
bounds of my circuit (I travel in the Rocky Mountain Circuit, M. E. Church South), and as I
have tried so many remedies, I concluded to try your LUNG BALSAM, which I did with
good success, and thought I was well. Last August, while laboring very hard in protracted
meetings, the cough returned; as soon as I could I got another supply of your LUNG
BALSAM, and in the past two years I have used about ten bottles, and am able to be up
and to preach again.

I could not tell you the amount of medicines I have used in the past twenty years, but

and to preach again.

I could not tell you the amount of medicines I have used in the past twenty years, but I found not tell you the amount of medicines I have used in the past twenty years, but I find your LUNG BALSAM superior to anything I have ever used, and I shall use it if I ever need any more, and I shall never cease to recommend your valuable LUNG BALSAM to those who have been afflicted as I have been.

Very truly your obedient servant,

Mrs. Geo. B. Tatun writes from Clinton P. O., Va., indorsing ALLEN'S LUNG BALSAM in high praise. She had used II freely among the poor and orphan children under her charge.

MINISTERS and PUBLIC SPEAKERS.
Who are so often afflicted with Throat Diseases, will find a sure remedy in this BALSAM.
Lozenges and wafers sometimes give relief, but this BALSAM, taken a few times, will insure a permanent cure.

J. N. HARRIS & Co., Proprietors, For Sale by All Medicine Dealers. CINCINNATI, O.

State are booming the Holstein cattle and cannot get enough of them, and we wish the farmers to know it.

Northwestern Dairymen's Association. EIGHTEENTH ANNUAL CONVENTION.

EIGHTEENTH ANNUAL CONVENTION.

—The Eighteenth Annual Meeting of the Northwestern Dairymen's Association will be held in the city of Mankato, Minnesota, commencing Tuesday, Feb. 42th. 1884, and continuing with three sessions a day, closing Friday the 15th. The splendid success of the meeting of last year, which was held at Mankato, induced the executive committee to select the same locality for the meeting of 1884. Every indication warrants the

1884. Every indication warrants the conclusion that the coming convention will prove the grandest success in the history of the Association. A full array of the best dairy talent of the entire northwest will be present.

northwest will be present.

The meetings of the Association have always been characterized by a large and free discussion of topics calculated to instruct and profit the individual dairyman, and it is especially desired that as many of this class as possible make an effort to be present at this meeting. Mankato is easily reached by three im-portant railroads, the Chicago & North-

W. D. HOARD, President,
Fort Atkinson, Wis.
R. P. McGLINCY, Sec.,
Elgin, Ill.

Analysis of Michigan Dairy Salt, J. F. Ewing, Agent, 105 N. Third Street, St. Louis, Mo.

CHICAGO, ILL., July 18th, 1883.
This certifies that I have analyzed for the Michigan Dairy Salt Co., a sample of Dairy Salt with the following result:

Total 100,000 This sample of salt, outside of the moisture, contains only .5505 per cent. of foreign matter, and may therefore be considered to be salt of excellent quality.

G. A. MARINER. Analytical and consulting agent and assayer, No. 81 South Clark Street,



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DAIRY SALT.

ST in the WORLD for DAIRY and CREAM-ty purposes. Sold in bulk, barrels or sacks J. F. EW'NG, Agt. Michigan Dairy Salt Co., 166 N. Third St., SL. LOUIS, Mo.

made by the oldest manufacturers of an oil butter color in the United States. Established in 1889. The market value of your butter advanced from 3 to 5 cents a pound. Use the strongest pure color made, free from ranoidity. It cannot be detected in the butter. We supply more than 1,000 creameries. Warranted to satisfy. Color at wholesale rates where we have no agent. Send no satisfy. no agent. Send postal for circulars to B. FARGO & CO. Lake Mills, Wis.



The strongest, most natural tint. Gives the Butter 10 taste or smell. Patronized by the most prominent creamery men. Send for price list. Mention this paper. BEAN & PERRY MfgCo., Rockford, III.



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Rockford, 111.

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Contains all the valua-ble features of his old Nichols'Mills, with none of their defects. This is the only balanced is the only balanced mill without a vane. It is the only mill balanced on its center. It is the only mill built on correct scientific principles so as to govern perfectly. ALL VANES

Are mecnanical devi-oes used to overcome the mechanical defect of forcing the wheel to un out of its natural position.

ontion.

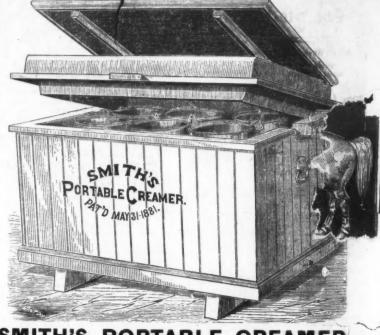
A wind wheel beomes its own vane if to vane is used, hence vane is used, hence vane is useful to blow the mill down. This mill will stand a heavier wind, run steadier, last longer, and crow loud. 'than any other mill built. Our confidence in the mill warrants us in offering the first mill in each county where we have no agent, at agents' prices, and on 30 days' trial. Our power mills have 25 per cent more power than any mill with a vane. We have also a superior feed mill adapted to wind or other power. It is cheap, durable, efficient. For circulars, mills and agencies, address NICHOLS & WURPHY, Elgin, Ill. (Successors to The Batavia Man't'g Co., Batavia, Ill.)



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OUR NEW NO. 7 FEED MILL. The 8th Wonder of the World.



Don't fall to get description before buying. Waranted to grind taster and
better than al y mill of
same price. Ti lightest
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force feed and of, ATTEEL
GRINDERS. We also make
Big, Little, and New Giants. The only mill that
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For Stock Food or Meal for Family use. 10,000 IN USE. Write for Pamphlet W. S. ROBERT & CO. St. Louis, Mo.

The **PONY** SAW MILL A LIGHT POWER DRIVES IT. CHANDLER

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Carbolate of Iodin

INHALANT.

CUTLER'S POCKET INHALER



A cure for Catarrh, Bronchitis, Asthma, and all diseases of the Throat and Lungs—even Consumption—if taken in season. It will break up a Cold at the consumer of the consumer of the cold at the consumer of Cough Medicines. A two inhals the king correct the most Offensive Breach. It was a canteed to accomplish all that is claimed for it. This instrument, charged with the Inhalant, is a preventive of disease. It was first tested as Shreveport, La. during the Yellow Fever panic of 1873, and since then in various hospitals and localities infected with Malaria, Small Pox, Diphtheria, etc., and of the great number of persons, including Physicians and Nurses, who used the Inhalare as a preventive, not one is known to have been attacked with any of the diseases to which they were exposed. Patented in 1873, this Inhaler has since had a larger and more extensive sale than any Medical Instrument ever invented. It is approved by physicians of every school, and encorsed by the leading medical journals of the world. Over 300,000 IN USE. Sold by druggists for 51.00. By mail, \$1.25.

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Is simple, perfect, and cheap; the colly dumping boiler; empises its kettle in a minute. Over \$6,000 in money. Price 10 cents in postage stamps. R. MITOHELL& CO., 69 Dears for Sale, Catalogue and as we one-half the cost of porks. ACO., Batavia, Illisols.

410 Michigan 8t., Buffalo, N. Y.

Send for our 60 Page Hiustrated Poultry yards, showing 54 breeding pons. It tells how we show ing 54 breeding pons. It tells how we sides raising on the same 100 bushels each of 2,500 cabbages, one ton of oats, and 1½ tons of 2,500 cabbages, one ton of oats, and 1½ tons of feed. It tells about Incubaters and Brooderies, and gives instructions how to feed to secure the greatest number of eggs for the least money. Price 10 cents in postage stamps. R. M. MITOHELL& CO., 69 Dears for Sale, Catalogue.

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LEMON ROCK and R



carefully, and a second of the IS MADE BY THE

ST. LOUIS WINE GOMPARY,

Weak Nervous Men



Address Consulting Physician of MARSTON REMEDY CO., 46 W.14th St., New York. ARTIFICIAL LIMBS.



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RANDOLPH & SMITH, Progretors

Che Stock Pards.

Weekly Review of the Live Stock Market. The receipts and shipments for the week ending at 11 a. m. to-day were as follows:

	RECEI		Horses		
Wednesday Thursday Friday Saturday Monday Tuesday	Cattle. 1174 1896 738 209 734 985	Hogs. 8242 6289 4511 2392 4794 6487	Sheep. 1880 1131 1155 332 387 807	mule3. 297 117 245 218 214 37	
Total Cast week	5,733 1,205 8HIPMI	32,645 7,873	5,693 514	1,135 101	
	DALLE OLS			Horses	
Wednesday Thursday Friday Saturday Monday Tuesday	252	1360 1701 3772 2038 1539	Sheep. 669 440 1048 968 740 204	mules. 404 65 73 162 84 188	
Total	4,098 1,305	10,410 4,069	4,069 962	976 240	1

CAPTLE.—A retrospect of the cattle market for the past week presents many interesting and encouraging features. The week all through has been a period of almost continuous activity, the beginning of which dates from the earliest opening. Salesmen are interesting to the continuous activity the beginning of which dates from the earliest opening. Salesmen are interested to think that this marks the commencement of a reaction, which make the commencement of a reaction, which make the commencement of a reaction, which may be commenced activities of the prices will prevent light and such small supplies naturally restricted in the early development of a stronger reeling and advance, which amounted from 35 to 50 cents over the closing figures prevailing last week. But very few heavy or part of the contractic and sales of well fattened steers hrough \$5,5008,35, and heavy exporters \$5,906,35. Steers of a light weight and only fair in fiesh brought \$5,608,35 in shippers, and \$4,50 &4,90 in butchers account. All descriptions of butchers stock kept pace with the shippers grades, and were uniformly high in choice cows selling as high as \$4,5004,75, while other grades were in proportion. Mich cows were in demand as was like wise bulls and mixed lots of cows, helfers and steers, which when in good flesh brought top quotations. Stock steers were some what quiet, but nevertheless steedy and held higher.

steers were somewhat quiet, but nevertheless steady and held higher.

The closing day of the week witnessed a stood but somewhat quiet market, the demand seing mostly limited to Eastern shippers who after they had bought up all the desirable lots at strong prices withdrew leaving the market to speculators and local dealers who, however, were not disposed to operate very extensively. (The general markets was firm and values strong at the following:

Jen	porter	8				\$6	15	60 1	5 55	
Go	od to	heavy	steer	8		5	75		6 00)
	ght to f									
	mmon									
Fa	ir to go	ood Co	olorad	lo ste	ers	4	25		5 2	5
	uthwes									
	ght to s									
Fa	ir to go	od fee	eders			3	75		4 35	5
Ns	tive co	ws an	d hei	fers.		3	25		4 50)
.Sc	alawag	s of a	ny kii	nd		. 2	50	@	2 7	5
	lch cov									
Ve	al calv	88				. 6	90	@ 1	3 0)
]	Repris	entati	ve Sa	les:			35		1	
	native	cow	8			. 9	26.		.\$4	10
14	66		18							
16	86	66								
17	4.6	66				1,2	B.		. 5	75

33-During the week the hog market m as active as the rather limited supilial admit of, and prices have been on ending scale from the outset and cuil in the highest prices since the packson opened. This advance has remaining the receipts and not from any untin the provision market. Packet large efforts to check the rise aying out to a large extent, and at few of the leading establish-presented. It is expected that ing week will depend on the ecourse of the provision market former prove light conices may be expected. The fact was as follows: Wedneswas strong and with a brisk y clearance was effected. 56530, and mixed packing poice heavies brought \$560 re advance was had, but e, sales being made at y forkers \$5356560, and Friday another advance was obtained for a bunch hille lights sold from \$5.50.

he is 40% is, and butchers to the incident of the incident of

here was a fair smount of life witnessed the horse and mules. The witnessed the horse and mule market during the st week the horse and mule market during the extreme d weath. The demand for good work-god size ters was large; and considerable xxcess of the supply. Good, blocky lies, 3 to 8 years old, were also wanted, and a short of the demand. Prices steady for

. Heavy draft
Drivers 195@900
Streeters 115@150
Southern 75@100
Saddlers 110@170
Flugs 50@ 75
MULES.
13to 131/4 hands,4 to 8 years old 80@ 100
. 14 to 14% hands,4 to 8 years old 100@115
15 hands, 4 to 8 years old 110@130
15% hands, 4 to 8 years old extra 130@150
15% to 16 hands 150@180
Old mules 35@ 80
DENEDAL MARKET

FLOUR--Was nominally firmer, especially at the closing of the week, when eastern freight rates were reduced. Offerings however were small and there was but few orders received on the pers' account, and local jobbers burger in the manner of the pers' account, and local jobbers burger in the same was prices during the week ere held very steady at the following market limits: Fancy to extra, 44.85 to 545; holde, 44.40 to 44.50; family, 83.90 to \$4.00; VAK, 83.50 to 83.00; XX, 83.00 to 83.00; X, 82.50 to \$2.50; super, \$2.60 to \$2.75; fine, \$2.35 to \$2.50. WHEAT-Received into elevators during week, \$1.82 buskels. Withdrawn 59,756 bushels. The market opened at a decline of %c, to \$6.0, and very weak, cash grades meeting with a ready market from all classes. Later, prices firmed up considerable, and were fully chigher than the day before, and continued might bullish in tendency up to the near low, with a veady market from all classes. Later, wing to small stocks. No. 2 red selling to nillers and speculators at \$1.02 % reg. No. 3 and 55% to 39 bid. No. 4, 83.40; to 84, and received 71%c. to 72. Futures in sympathy with ash were also better, but fluctuated considerable were also better the person of the person of the person of the person of the person o

erably. Closing at \$162%c. for January, \$1.04% for February, and \$1.69% for May.
CORN—Received into elevators during
weak, \$51.078 bushels; withdraw 126ec, but at
lower rates; No.3 mixed seding flat 1½, but
under brisk demand may and gained
in firmness, and was charply higher later,
grades and was charply higher later,
to grade the close, however, the general
market fell off, but subsequently advanced
stiffly and closed with an eager demand,
shippers taking most of the No.2 mixed, the
balance going to shorts at 49 regular. Other
grades were scarce and all quickly sold at
sellers figures. No. 2 white mixed 46%, regular; rejected do 42643 bid, rejected 48%. No
grade 40 bid, and new-mixed 46%, and Mey
brought 35% 635%.

OATS—Received into elevators during
week, 5,300 bushels. Withdrawn, 55,102 bushels. The scarcity of cash advanced prices
from the outset under a large demand, and
with more buyers than sellers. The upward
movement of values continued to the close,
when No. 2 cash brought 35% 638%; closing at 35, rejected at 34%, and No. 2 white at
36. January futures had 35% bid. February
selling at 33% 633%, and May 37637%, closing
at 36, rejected at 34%, in fine at
\$9, 1 strictly prime timothy at \$10, 1 choice at
\$9, 1 strictly prime timothy at \$10, 1 choice at
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\$9, 1 strictly prime timothy at \$10, 1 choice at
\$9, 1 strictly prime timothy at \$10, 1 choice at
\$9, 1 strictly prime timothy at \$10, 1 choice at
\$10 casionally a shade more for fancy; dairy—
choice at 25c, and selections more; poor
qualities at from 10 case and 11 elected or Illinois
to 12613c for Wisconsin; prime part skim 76

choice. CHEESE—Full cream at 11@12c for Illinois to 12@13c for Wisconsin; prime part skim 7@ 7%c; choice to fancy do \$@8%c; low to fair 2@6c. Quiet but firm.

ITEMS OF NEWS.

"No," said a fond mother, speaking very proudly of her 25-year-old daughter, "no, Mary isn't old enough to marry yet. She cries whenever any one soolds her, and until she becomes hardened enough to take back vigorously she isn't fit for a wife."

A classicist and a naturalist are talking over the last storm: "So our friend was actually killed by a stroke of lightning." says the classicist. "Exactly so." "He perished as Ajax did, defying Jupiter?" "No, he was eating some peas stewed in oil."—[La Figaro."

ro.

One Suffering Soul Happy.—"If I can send one suffering soul to you," writes James Corbine, of Washburn, Ill., "I will be happy. Samaritan Nervine cured me, and will cure all cases of fits." \$1.50.

Innumerable tracts and pretty stories impress upon us that Sabbati-breaking is rather worse than stealing, and leads naturally on to Materialism and murder. Less than a hundred years ago, sacrliege was punishable in France by burning, and murder by simple decapitation.—Cifford's "Ethics of Religion."

Fitted out for the Season. Dresses, cloaks, coats, stockings and all garments can be colored successfully with the Diamond Dyes, Fashionable colors. Only 10c. at druggists. Wells, Richardson & Co., Burlington, Vt.

wells, Richardson & Co., Burlington, Vt.

Mamma: "Mercy on us, children, stop that noise! What are you quarrelling about?"
"We isn't a quarrelling." Mamma—"Then what is all this noise about? What is Harry scolding for, and why are you pulling his hair?" Little Nell: "it's only play, mamma; we is pretendin' we is marred."
"Hope Deferred Makes the Heart Sick."—Who among us of adult life does not know it? We see the evidence every day; not confined to city, town or village life, but on the plains, savannas and pasture lands of the country. Anxious faces meet us on the inland water routes, in the cars, on legislative floors and in the busy hives of industry. We hear the sigh, note the sallowness, see the resticasmess, and observe the languor of the dyspeptic. If you wish to avoid the evils which indigestion brings, and hope to become like a tree of life, use the celebrated Home Stomach Bitters.

For Sale.

THE MODEL STOCK FARM,

consisting of 320 acres of rich, black loam prairie land in the famous Spring River Valley; 15 miles from Carthage the County Site and Queen City of the Southwest, three miles from Frisco R. R.—Trunk Line—two stations within five miles, 220 acres in cultivation, 70 acres in grass, remainder in orchards, lots, etc. 1000 young trees just coming into bearing consisting of apple, peach, cherry, plum and pear. Small fruits in abundance to for family use, grapes, blackberries, raspberries, gooseberries, nuckleberries, currants and strawberries. 96 acres in wheat, 80 acres broke for spring crops, balance corn stubble. Farm fenced with three barbed wiresand cedar and iron posts. Artificial fish pond of about two acres well stocked with German Carp, Mirror and Scale. Good wind-mill and tanks for stock, 100 durants in barn, yard and garden. Buildings—New frame one-story dwelling, 6 frooms and cellar. New frame barn, 130x30 ft., 12 feet wall, 2 floors, room for 55 head of stock, 2000 bu, grain and 100 tons of hay. One tenant house with outbuildings. An inex haustable supply of good water; beautiful lawn of about one acre surrounding the dwelling, bluegrass, evergreens and abundance of hardy flowers. In nearly seven years residence have never had a case of sickness in a large family. Improvements cost about \$12,000. Satisfactory references and reasons for selling. Will self farming implements, grain and hay with farm. Possession given at one, Beautiful climate—thermometer anges from 110 deg, above in summer to 10 deg, below zero in winter. For particulars and all on or address J. A. WILSON, Galesburg, Jasper Co., Mo., Oronogo Station, St. Louis & Frisco R. R.







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PENSIONS for any disability also to Heira. Send stamps for New Laws. Col. L. BINGHAM, Attorney, Washington, D. C.

GOLDEN PRAISE

Ayer's Sarsaparilla

By People who Have Proven its Benign Effects.

REV. W. E. PENNINGTON, Central South Hampton, N. B.: "AYER'S SAR-SARSAPARILLA has made a new man of me." [Cured by it of General Debility.] JOHN J. RYAN, Athletic B. B. C., Philadelphia, Pa.: "AYER'S SARSAPA-RILLA cured me." [Cured by it of Rheu-matism.

ORLANDO SNELL, Lowell, Mass.: "I enjoy better health than ever before, due solely to the use of AYER'S SARSAPARIL-LA." [Cirred by it of Carbuncles and Debility.]

NATHAN S. CLEAVELAND, Boston, Mass.: "A most valuable remedy for the lassitude and debility incident to the spring season." [His daughter cured by AYER'S SARSAPARILLA of Headaches, Dizziness, Indigestion, and General De-

MILTON FOX, Dracut, Mass.: "The one I would recommend above all others as a blood purifier." [Cured by AYER'S SARSAPRILLA of Scrofulous Humor and Dyspepsia.]

WARREN LELAND, New York: "There is no medicine in the world equal to AYER'S SARSAPARILLA." [Cured by it of Rheumatism.]

HON. FRANCIS JEWETT. Lowell. Mass.:
"AYER'S SARSAPARILLA is the only preplanting that seems to do me any real lasting good." [Cured by it of Blood Impunifying 1] Impurities.]

MRS. E. B. TOMPKINS, Brooklyn, N. Y.:
"AYER'S SARSAPARILLA has done me unold good. Nothing else has been so effiacious." [Cured by it of Feminine] Ailments.]

FRANK M. GRIFFIN, Long Point, Texas: "Has worked like a charm; no medicine could have accomplished more." [His child cured by AYER'S SARSAPARILLA of Scrofulous Sores.] MRS. H. MCKAY, Lowell. Mass.

can recommend AYER'S SARSAPARILLA to all afflicted." [Her son cured by it of Scrofulous Swellings, Dizziness, and Internal Fever.]

GEO. ANDREWS, Lowell, Mass.: "No doubt whatever that I owe my recovery to AYER'S SARSAPARILLA." [Cured by it of Salt Rheum.]

HENRY J. CHAPMAN, Nashua, N. H.:
"AVER'S SARSAPARILLA is a perfect
blood purifier." [Cured by it of long
standing and severe Scrofulous Humors.]

SELBY CARTER, Nashville, Tann.:
"My system seemed saturated with Scrofula, but Ayer's Sarsaparilla has proved its superiority to all others." [Cured by it of Feminino Weaknesses.]

Almost "all the ills that flesh is heir to" spring from, or are intensified by, impurities in the blood, the result of hereditary taint or of a wrong manner of living. AYER'S SARSAFARILLA thoroughly purifies the blood, gives tone and vigor to the digestive organs, and imparts new vitality to the nervous system. The only preparation of this class for which these claims can be truthfully made, and the only one that does "real, lasting good," is

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Dr. J. C. AYER & CO., [Analytical Chemists] LOWELL, MASS. Sold by all druggists; price \$1; six bottles for \$5.



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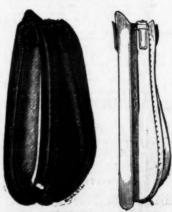
BOYD'S BURGLAR PROOF Grave Vault,

Absolute Protec-tection from **GRAVE ROBBERS.** Manufactured by The Springfiel M'fg. Co.,

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35,000 NOW IN USE. THE HORSE'S FRIEND. Spooner's Horse Collar. Pat. April 11, 1876.



FRONT VIEW. Prevents chafing; cannot choke a horse Ask your Harness Maker for it.

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TICKNOR & CO.,

The well-known Merchant Tailors of St.Lou is (established in 1857), will upon red free by mail a full line of sample goods, their rules for self-mes prices, etc., thus enabling you to o

Facts in regard to Dr. Testimony of some of our most eminent Physi-ians and Clergymen: It will purify and en-rich the Blood, regulate the Liver and Kidneys, My stand-by remedy.— REV. J. P. WATSON, Troy, O. and restore the health and vigor of youth. In all diseases requiring a certain and efficient Ton.

For Female Diseases Dr. Harter's Iron Tonic is far excellence.—]. B, Cox, St. Genevieve, Mo.

ic, especially Dyspepsia, Want of Appetite, Indigestion, Lack of Strength, etc., its use is marked with immediate and wonderful results. The bones, RET, Bonham, Texas.

derful results. The course, muscles, and nerves receive new force. Enlivens the mind and supplies brain power.

Dr. Reprev & Walton, Philadelphia, Pa. plies brain power.

Ladies suffering from

complaints peculiar to their sex will in Da. Harters's Iron Tonic to ministers and public speakind a safe and speedy cure. The strongest testimony to the value of Dr. Harter's Iron Tonc is that frequent attempts at counterfeiting have only added to the popularity of the original. If you earnestly desire health, do not experiment,—get

The strongest testimony to the value of Dr. HARTER'S IRON TONIC is that frequent attempts at counterfeiting have only added to the popularity of the original. If you earnestly desire health, the original, get the best. Bend, Ala.

THE DR. HARTER MEDICINE CO., St. Louis, Mo., U.S.A.



s awarded the first premium the International Exhibition Philadelphia in 1876, and ac-SUPERIOR TO ANY OTHER KNIFE IN USE.

It is the BEST KNIFE in the scorld to cut fine feed from bale, to cut down monor stack, to cut cornstalks for feed, to cut peat, or for ditching in marshes, and has no equal for cutting ensiting from the silo. TRY IT. IT WILL PAY YOU.

HIRAM HOLT & CO. Me., U. S. A.

OUR No. 1 Plantation Saw Mill, \$200 (SEND FOR DESCRIPTIVE CIRCULARS.)

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FOLGER'S EVAPORATOR.

WILDE'S OLD BUSINESS MI

OPINIONS OF THOSE WHO HAVE USED THEM.

Practical Experiments | Better Than Theory

CANE - GROWERS, READ THE FOLLOWING TESTIMONIALS.

The Best Mill, and, by All Odds, the Best Evaporator Made.

Gilman, Iowa, Dec. 17, 1885.

Messrs. Folger, Wilde & Co., Dear Sirs:—You ask me to give my opinion of the Folger Self-Skimming Hot Filter Pan, after having used it the past three seasons. For this I mater here were the past three seasons for the latent the extent in the skim is readily brought to the surface and carried to the side shute, where it is easily and quickly disposed of. Then the Hot Filter, where the juice is forced upward through fine flannel or wire cloth, effectually removes any inpurities that may have been left, as well as that strong or sorghum taste so much complained of in sorghum strup, leaving it a season has been very poor, but little of the Amber, and none of the Orange coming to maturity, yet I made from the above 1,500 gallons of No. 1 sirup. Besides I made 200 gallons for neighbors. My sirup sells readily at 50 ets. per gallon by the barrel.

Yours,

Effingham, Kan., Dec. 22, 1889.

We have been using the sugar machinery made by Wilde & Co. the past two seasons and find them superior to anything in this line we have ever seen. The Old Business Sweep Mill is a No. 1 Mill. With 2 light horse it will work 40 acres in a season, running in the day time only. It does work well and never chokes, the curse of many cane mills out works), we used one of their Power Mills, small power. I do not think there is a better cane mill to be found, and, if any as good, we have not seen them. It never choked and never caused one minute's delay by breaking, and presses the cane dry so that a half a day's sunshine on the bagasse it would readily hurn. It is good for 25 gallons of sirup per celebrated Folger Capped Pans, with the best of results. As an evidence, a merchant whom we have been supplying for 2 years, said to us: I can buy sirup cheaper than yours, but I give you the preference at your price, because you make a better article. When our works burned we had an order from one retail dealer for thirty barrels of sirup. We take pleasure in recommending the the bast in the market.

Garnett, Kansas, October 9, 1883.

and gentlemen, and their goods as market.

Garnett, Kansas, October 9, 1883.

Messrs. Folloer, Wilde & Co.: Sirs:—The Old Business Cane Mill I bought of you this season has more than filled your recommend. I don't know how much a good team and twelve hours work would press out, as I have an Evaporator capacity of about 80 gallons per day; but in trying to get ten hours work out of a pony team I am compelled to run Evaporator part on a per day, but an consident I could, with your No. 6 Evaporator, make 128 gallons per day with ease. All who see Old Business at work agree with me that it is the best 2-horse sweep mill out.

Yours truly,
HENRY HEDGES.

Leon, Kansas, September 13, 1883.

Messrs. Folger, Whde & Co., Sirs:—I have been working the No. 7 Evaporator for three weeks and it does all that is claimed for it. I make 150 gallons per day with less labor than I could 50 gallons per day with less labor than I could 50 gallons on the evaporators used in I7 years experience, joice enough for four hundred gallons per day and not break. Your, N. B.—Later report from Mr. Smith shows that he has made II,000 gallons of sirup this season on this No. 7 Pan.

Messrs, Folger, Wilde & Co., Sirs.—I have now ried the two No. 10 Folger Evaporators bought of on this year and I am well pleased with them. "They fill the bill." We made 400 gallons of sirup his afternoon and finished before sunset from infector cane, using steam to finish from 220 Fahr.

A. A. DENTON.

Blenheim, Ont. (Canada.) November 1, 1883.
Messrs. Folger, Wilde & Co., Genflemen:—The No. 6 Copper Evaporator and O. B. Under Sweep Cane Mill I purchased of you last spring I have no heard. The self-skinmer and Hot Filter work complete. The strup I made with them this fall is pronounced by all practical judges to be by far the best ever made in this part of the country. As a proof I made 800 gallons and it is all sold at home already. I think it saves fully one-half in labor and fuel.
Yours respectfully, J. M. GARDINER.

Yours respectfully, J. M. GARDINER.

Elk Falls, Kas., Oct. 23, 1883,
Messrs. Folger, Wildbe & Co., Sirst-Our apparatus works all right. Our Pan and Mill work to charm. Can't ask for better. I think "perfect" is the word for it. Taking some of our best runs as criterion. I am satisfied that with an engine to livie the Mill (small power) and start with a furnace all hot, we can make 500 gailons of good sirup in 24 hours with ease. Pan is a No. 8.

P. CUMMINGS.

Eikhorn, Illinois, Oct. 7, 1883.

Messrs. Willde & Co., Nirs:—I have been over 20 years in the sorghum business, and have used all the leading Presses and Evaporators that I could find, and I must in candor say that the No. 2 Power Press and No. 7 'velf-'klimming Evaporator that I bought of you this season excels any that I ever used or saw used and I have visited State Fairs and Sorghum Evelories in search of threest, and I think yours all is the bill.

Respectfully, P. Hibbarn.

Statement of Dr. McGee.

Jack's Creek, Chester fo., Tenn., Nov. 5, 1889.

Messrs, FOLGER, WILDE & Co., Gentlemen:—In August last I saw your Cane Mill and *elf-*kimming Evaporator at work on Mr. Winslow Robertson's Geraperation they are far superior to anything I have operation they are far superior to anything I have seen in the line of 80700 Machinery. The Self-Skimmer and Automatic Hot Filter are perfect in their operation, throwing off the "seum.," a large portion of acid with it, and removing all specks, etc., from the clarified julie. The Evaporator is so simple in construction, so easily managed, and does its work so thoroughly that it is strange that it was to simple in construction, so easily managed, and does its work so thoroughly that it is strange that it was an average of 160 gallous of excellent strup in a day on your No. 6. Self-*kimming Evaporator. The planting of your machinery in this vicinity has given a new impetus to the Sorgo industry in this county, and the coming year a larger area will be planted in case than ever before. May still greater success attend you in your efforts to develop this great and much-needed industry. Yours truly.

turns off as much juice as can be boiled on pan, and does its work well. It is surprising to all who saw it work. The feed is a great deal better than the old-fashioned way. I think the Mill is a good one.

Henderson, Chester Co., Tenn., Oct. 19, 1883.

Messrs. Folger, Wilde & Co., Sirs:—It gives me pleasure to report to you that the Evaporator and Mill I purchased of you last spring is a perfect success. I have made 800 gallons of fine molasses and have more to make yet. Everybody is well pleased with the Evaporator that sees it; had visitors from a distance to see my outfit; think you will get several orders from Chester county for another season.

Winslow Robertson.

Trenton, Tenn., Dec. 7, 1883.

GENTS:—I hereby certify that I visited E. A. Grigsby's works during the past season, and saw him operating Folger's Self-Skimming Evaporator and Wilde's Old Business Cane Mill. The Mill is light draught, crushes the cane with remarkable case and speed, and leaves it dryer than any Mill I have ever seen. The Evaporator does its work to perfection. It is easily operated, skims itself better than is possible to skim by hand, and makes a sirup that is superior to any I have ever seen made on any other pan.

Respectfully,
R. F. Ross.

GENTS:—I have seen Folger's Self-Skimming Evaporator in operation, also Wilde's Old Business Cane Mill, and I regard them both as much superior to any other Sorgo Machinery I nave ever seen. My strup, made on the Folger Evaporator, is the purest and best sorghum strup I have ever seen.

Yours Respectfully,
J. M. SENTER.

Manhattan, Kansas, October 6th, 1882.

Measrs. Folger, Willde & Co., Sirs:—My "Old Business" Mill does more and better work than what Mr. Martin, your sgent, claimed when he sold it to me. I did not expect half such a Mill to do work as it does. I can chop all the bagasse to mince meat and take all the juice out of my cane. You cannotibuy the Mill back for \$400 and make me take some other Mill. I can grind 18 hours, with my little Bookwalter engine, six and one-half horse power, juice enough to make 500 gallons of sirup 500 B. My Mill has not cost me one cent this season, and my Pan I like better every day, and any sorghum maker that will try your Pan will find it; out in a short time. It does its work for all claimed by its makers, and I can get more work out of it than claimed. I made just 111½ gallons in ten hours' run on my fifteen foot Pan (No. 4), and for skimming it does it almost himself. Just one twist of the handle rakes it off, and, moreover, no boiling over and daubing everything over. The cover fixes all that. Take everything into consideration, it scoops all the Pans I ever had.

N. H. KNIGHT.

See What Judge Black Says

See What Judge Black Says.

Trenton, Tenn., Dec. 7, 11

This is to certify that L have had Folger's Self-Skimming Evaporators of Wilde's "Old Business" Cane Mills on my place during the past seas Mill is remarkable for its strength, of draught and the extra percentage it obtains from the cane. I regard the Evaporator as the best I have see easily operated, and coming fully unmanufacturers' claims. Yours,

G. B. B.L.

Altoona, Iowa, Nov. 25, 1883.

Messrs. Folger, Wilde & Co., Sirs:—The Mill and pan I bought of you have given good satisfaction. The Mill did splendid work; pan is first-class. It skims itself better than can be done by hand. The Hot Filter removes impurities that cannot be removed other ways. We have no trouble in burning pans. One man can fire and tend the pan. I made 2,185 gallons of sirup this fall.

Yours respectfully,

JACOB ESHLEMAN.

Bangor, Marshall Co., Iowa, Nov. 12, 1883.
Messrs. FOLGER, WILDE & Co., Friends:—
I will testify for your benefit that the Mill
and Evaporator I got of you this year did
good work. I made about 28 barrels of very
good molasses. It came from the finishing
Pan in beautiful order and then I strained it
through a muslin cloth into cooler and it
was uniformly light colored and clear as
crystal. The Skimming principle is a very
good one indeed, and the Hot Filter, rightly
used, is most excellent. At first I let it go
through too rapidly, which soon choked the
gauze and became tedious, but a little practice and skill will soon bring out the secrets
of success in this superior Evaporator, bot
for the production of a good article and fa
the speed of its working.

FREDERICK ALBRIGHT.

portion of scid with it, and removing all specks, etc., from the clarified juice. The Evaporator is so simple in construction, so easily managed, and does its work so thoroughly that it is strange that it was not thought of long ago. Mr. Robertson can make a control of the co

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